



RECEIVED

NOV 22 2002

## SEQUENCE LISTING

TECH CENTER 1600/2900

&lt;110&gt; YAN, Chunhua et

<120> ISOLATED HUMAN RAS-LIKE PROTEINS,  
NUCLEIC ACID MOLECULES ENCODING THESE HUMAN RAS-LIKE  
PROTEINS, AND USES THEREOF

&lt;130&gt; CL001079

&lt;140&gt; 09/770,689

&lt;141&gt; 2001-01-29

&lt;160&gt; 44

&lt;170&gt; FastSEQ for Windows Version 4.0

&lt;210&gt; 1

&lt;211&gt; 3248

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1

C6

|            |             |             |            |            |             |      |
|------------|-------------|-------------|------------|------------|-------------|------|
| ccgcgcgcgc | gtttgggccc  | ggwagcgatg  | tagtagctgc | caggctgtcc | cccgccctgc  | 60   |
| ccggcccag  | ccccgcggc   | cgccgcgcgc  | accgcgcgca | tgaagaagca | gttcaaccgc  | 120  |
| atgaagcagc | tggctaacca  | gaccgtgggc  | agagctgaga | aaacagaagt | ccttagtgaa  | 180  |
| gatctattac | agattgagag  | acgcctggac  | acggtgcggt | caatatgcca | ccattcccat  | 240  |
| aagcgcttgg | tggcatgttt  | ccagggccag  | catggcaccg | atgccgagag | gagacacaaa  | 300  |
| aaactgcctc | tgacagctct  | tgtcaaaat   | atgcaagaag | catcgactca | gctggaagac  | 360  |
| tctctcctgg | ggaagatgct  | ggagacgtgt  | ggagatgctg | agaatcagct | ggctctcgag  | 420  |
| ctctcccagc | acgaagtctt  | tgttgagaag  | gagatcgtgg | accctctgta | cggcatagct  | 480  |
| gaggtggaga | ttccaacat   | ccagaagcag  | aggaagcagc | ttgcaagatt | ggtgttagac  | 540  |
| tgggattcag | tcagagccag  | gtggaaccaa  | gctcacaaat | cctcaggaac | caactttcag  | 600  |
| gggcttccat | caaaaataga  | tactctaaag  | gaagagatgg | atgaagctgg | aaataaagta  | 660  |
| gaacagtgca | aggatcaact  | tgcagcagac  | atgtacaact | ttatggccaa | agaaggggag  | 720  |
| tatggcaaat | tctttgttac  | gttattagaa  | gcccaagcag | attaccatag | aaaagcatta  | 780  |
| gcagtcttag | aaaagaccct  | ccccgaaatg  | cgagcccatc | aagataagtg | ggcggaaaaa  | 840  |
| ccagcctttg | ggactccccct | agcagaacac  | ctgaagagga | gcgggcgcga | gattgcgctg  | 900  |
| cccattgaag | cctgtgtcat  | gctgcttctg  | gagacaggca | tgaaggagga | gggccttttc  | 960  |
| cgaattgggg | ctggggcctc  | caagttaaag  | aagctgaaag | ctgctttgga | ctgttctact  | 1020 |
| tctcacctgg | atgagttcta  | ttcagacccc  | catgctgtag | cagggtgctt | aaaatcctat  | 1080 |
| ttacgggaat | tgctgaacc   | tttgatgact  | tttaatctgt | atgaagaatg | gacacaagtt  | 1140 |
| gcaagtgtgc | aggatcaaga  | caaaaaactt  | caagacttgt | ggagaacatg | tcagaagttg  | 1200 |
| ccaccacaaa | attttgtaa   | ctttagatat  | ttgatcaagt | tccttgcaaa | gcttgctcag  | 1260 |
| accagcgatg | tgaataaaat  | gactcccagc  | aacattgcga | ttgtgttagg | ccctaacttg  | 1320 |
| ttatgggcca | gaaatgaagg  | gacacttgct  | gaaatggcag | cagccacatc | cgtccatgtg  | 1380 |
| gttgacgtga | ttgaacccat  | cattcagcat  | gccgactggg | tcttccctga | agaggtggaa  | 1440 |
| tttaatgtat | cagaagcatt  | tgtacctctc  | accaccccga | gttctaatac | ctcattccac  | 1500 |
| actggaaacg | actctgactc  | ggggaccctg  | gagaggaagc | ggcctgctag | catggcggtg  | 1560 |
| atggaaggag | acttggtgaa  | gaaggaaagt  | cctcccaaac | cgaaggaccc | tgtatctgca  | 1620 |
| gctgtgccag | caccagggag  | aaacaacagt  | cagatagcat | ctggccaaaa | tcagccccag  | 1680 |
| gcagctgctg | gctcccacca  | gctctccatg  | ggccaacctc | acaatgctgc | agggcccgag  | 1740 |
| ccgcatacac | tgcgccgagc  | tgtaaaaaaa  | cccgtctccg | cacccccgaa | accgggcaac  | 1800 |
| ccacctcctg | gccaccccg   | gggcccagagt | tcttcaggaa | catctcagca | tccaccagct  | 1860 |
| ctgtcaccaa | agccaccac   | ccgaagcccc  | tctcctccca | cccagcacac | gggcccagcct | 1920 |
| ccaggccagc | cctccgcccc  | ctcccagctc  | tcagcacccc | ggaggtactc | cagcagcttg  | 1980 |

```

tctccaatcc aagctcccaa tcacccaccg ccgcagcccc ctacgcaggc cagccactg 2040
atgcacacca aacccaatag ccagggccct cccaacccca tggcattgcc cagtgcagcat 2100
ggacttgagc agccatctca caccctccc cagactccaa cgccccccag tactccgccc 2160
ctaggaaaac agaaccaccg tctgccagct cctcagaccc tggcaggggg taaccctgaa 2220
actgcacagc cacatgctgg aaccttaccg agaccgagac cagtaccaa gccaaggaac 2280
cggcccagcg tgccccacc cccccaacct cctggtgtcc actcagctgg ggacagcagc 2340
ctcaccaaca cagcaccaac agcttccaag atagtaacag actccaattc cagggtttca 2400
gaaccgcacg gcagcatctt tcctgaaatg cactcagact cagccagcaa agacgtgcct 2460
ggccgcaccc tgctggatat agacaatgat accgagagca ctgccctgtg aagaaagccc 2520
tttcccagcc ctccaccact tccaccctgg cgagtggagc aggggcaggc gaacctcttt 2580
ctttgcagac cgaacagtga aaagctttca gtggaggaca aaggagggcc tcaactgtgcg 2640
ggacctggcc ttctgcacgg cccaaggaga acctggaggc caccactaaa gctgaatgac 2700
ctgtgtcttg aagaagtgg ctttctttac atgggaagga aatcatgcc aaaaaatcca 2760
aaacaaagaa gtacctggag tggagagagt attcctgctg aaacgcgcac aggaagcttt 2820
tgtccctgct gttaatgcgg gcagcaccta cagcaacttg gaatgagtaa gaagcagtgc 2880
gttaactatc tatttaataa aatgcgctca ttatgcaagt cgctactct ctgctacctg 2940
gacgttcatt cttatgtatt agggaggagg ctgcgctcct tcagacttgc tgcagaatca 3000
ttttgtatca tgtatggtct gtgtctcccc agtccccctc gaaccatgcc catggatgg 3060
gactgctggc tctgtcacct catcaaactg gatgtgacct atgccgcctc gttggattgt 3120
cggaatgtag acagaaatgt actgttcttt ttttttttt taaacaatgt aattgctact 3180
tgataaggac cgaacattat tctagtttca tgtttaattt gaattaaata tattctgtgg 3240
tttatatg 3248

```

<210> 2

<211> 803

<212> PRT

<213> Homo sapiens

<400> 2

```

Met Lys Lys Gln Phe Asn Arg Met Lys Gln Leu Ala Asn Gln Thr Val
1          5          10          15
Gly Arg Ala Glu Lys Thr Glu Val Leu Ser Glu Asp Leu Leu Gln Ile
20          25          30
Glu Arg Arg Leu Asp Thr Val Arg Ser Ile Cys His His Ser His Lys
35          40          45
Arg Leu Val Ala Cys Phe Gln Gly Gln His Gly Thr Asp Ala Glu Arg
50          55          60
Arg His Lys Lys Leu Pro Leu Thr Ala Leu Ala Gln Asn Met Gln Glu
65          70          75          80
Ala Ser Thr Gln Leu Glu Asp Ser Leu Leu Gly Lys Met Leu Glu Thr
85          90          95
Cys Gly Asp Ala Glu Asn Gln Leu Ala Leu Glu Leu Ser Gln His Glu
100         105         110
Val Phe Val Glu Lys Glu Ile Val Asp Pro Leu Tyr Gly Ile Ala Glu
115         120         125
Val Glu Ile Pro Asn Ile Gln Lys Gln Arg Lys Gln Leu Ala Arg Leu
130         135         140
Val Leu Asp Trp Asp Ser Val Arg Ala Arg Trp Asn Gln Ala His Lys
145         150         155         160
Ser Ser Gly Thr Asn Phe Gln Gly Leu Pro Ser Lys Ile Asp Thr Leu
165         170         175
Lys Glu Glu Met Asp Glu Ala Gly Asn Lys Val Glu Gln Cys Lys Asp
180         185         190
Gln Leu Ala Ala Asp Met Tyr Asn Phe Met Ala Lys Glu Gly Glu Tyr
195         200         205
Gly Lys Phe Phe Val Thr Leu Leu Glu Ala Gln Ala Asp Tyr His Arg
210         215         220

```

Lys Ala Leu Ala Val Leu Glu Lys Thr Leu Pro Glu Met Arg Ala His  
 225 230 235 240  
 Gln Asp Lys Trp Ala Glu Lys Pro Ala Phe Gly Thr Pro Leu Ala Glu  
 245 250 255  
 His Leu Lys Arg Ser Gly Arg Glu Ile Ala Leu Pro Ile Glu Ala Cys  
 260 265 270  
 Val Met Leu Leu Leu Glu Thr Gly Met Lys Glu Glu Gly Leu Phe Arg  
 275 280 285  
 Ile Gly Ala Gly Ala Ser Lys Leu Lys Lys Leu Lys Ala Ala Leu Asp  
 290 295 300  
 Cys Ser Thr Ser His Leu Asp Glu Phe Tyr Ser Asp Pro His Ala Val  
 305 310 315 320  
 Ala Gly Ala Leu Lys Ser Tyr Leu Arg Glu Leu Pro Glu Pro Leu Met  
 325 330 335  
 Thr Phe Asn Leu Tyr Glu Glu Trp Thr Gln Val Ala Ser Val Gln Asp  
 340 345 350  
 Gln Asp Lys Lys Leu Gln Asp Leu Trp Arg Thr Cys Gln Lys Leu Pro  
 355 360 365  
 Pro Gln Asn Phe Val Asn Phe Arg Tyr Leu Ile Lys Phe Leu Ala Lys  
 370 375 380  
 Leu Ala Gln Thr Ser Asp Val Asn Lys Met Thr Pro Ser Asn Ile Ala  
 385 390 395 400  
 Ile Val Leu Gly Pro Asn Leu Leu Trp Ala Arg Asn Glu Gly Thr Leu  
 405 410 415  
 Ala Glu Met Ala Ala Ala Thr Ser Val His Val Val Ala Val Ile Glu  
 420 425 430  
 Pro Ile Ile Gln His Ala Asp Trp Phe Phe Pro Glu Glu Val Glu Phe  
 435 440 445  
 Asn Val Ser Glu Ala Phe Val Pro Leu Thr Thr Pro Ser Ser Asn His  
 450 455 460  
 Ser Phe His Thr Gly Asn Asp Ser Asp Ser Gly Thr Leu Glu Arg Lys  
 465 470 475 480  
 Arg Pro Ala Ser Met Ala Val Met Glu Gly Asp Leu Val Lys Lys Glu  
 485 490 495  
 Ser Pro Pro Lys Pro Lys Asp Pro Val Ser Ala Ala Val Pro Ala Pro  
 500 505 510  
 Gly Arg Asn Asn Ser Gln Ile Ala Ser Gly Gln Asn Gln Pro Gln Ala  
 515 520 525  
 Ala Ala Gly Ser His Gln Leu Ser Met Gly Gln Pro His Asn Ala Ala  
 530 535 540  
 Gly Pro Ser Pro His Thr Leu Arg Arg Ala Val Lys Lys Pro Ala Pro  
 545 550 555 560  
 Ala Pro Pro Lys Pro Gly Asn Pro Pro Pro Gly His Pro Gly Gly Gln  
 565 570 575  
 Ser Ser Ser Gly Thr Ser Gln His Pro Pro Ser Leu Ser Pro Lys Pro  
 580 585 590  
 Pro Thr Arg Ser Pro Ser Pro Pro Thr Gln His Thr Gly Gln Pro Pro  
 595 600 605  
 Gly Gln Pro Ser Ala Pro Ser Gln Leu Ser Ala Pro Arg Arg Tyr Ser  
 610 615 620  
 Ser Ser Leu Ser Pro Ile Gln Ala Pro Asn His Pro Pro Pro Gln Pro  
 625 630 635 640  
 Pro Thr Gln Ala Thr Pro Leu Met His Thr Lys Pro Asn Ser Gln Gly  
 645 650 655  
 Pro Pro Asn Pro Met Ala Leu Pro Ser Glu His Gly Leu Glu Gln Pro  
 660 665 670  
 Ser His Thr Pro Pro Gln Thr Pro Thr Pro Pro Ser Thr Pro Pro Leu

|   |     |     |
|---|-----|-----|
| 675   | 680 | 685 |
| Gly Lys Gln Asn Pro Ser Leu Pro Ala Pro Gln Thr Leu Ala Gly Gly |     |     |
| 690   | 695 | 700 |
| Asn Pro Glu Thr Ala Gln Pro His Ala Gly Thr Leu Pro Arg Pro Arg |     |     |
| 705   | 710 | 715 |
| Pro Val Pro Lys Pro Arg Asn Arg Pro Ser Val Pro Pro Pro Gln     |     |     |
| 725   | 730 | 735 |
| Pro Pro Gly Val His Ser Ala Gly Asp Ser Ser Leu Thr Asn Thr Ala |     |     |
| 740   | 745 | 750 |
| Pro Thr Ala Ser Lys Ile Val Thr Asp Ser Asn Ser Arg Val Ser Glu |     |     |
| 755   | 760 | 765 |
| Pro His Arg Ser Ile Phe Pro Glu Met His Ser Asp Ser Ala Ser Lys |     |     |
| 770   | 775 | 780 |
| Asp Val Pro Gly Arg Ile Leu Leu Asp Ile Asp Asn Asp Thr Glu Ser |     |     |
| 785   | 790 | 795 |
| Thr Ala Leu   |     | 800 |

<210> 3  
 <211> 98865  
 <212> DNA  
 <213> Homo sapiens

<400> 3

|             |            |            |            |             |            |      |
|-------------|------------|------------|------------|-------------|------------|------|
| ctcgtggctg  | agtttaatta | cacactcttg | ctctagctgt | aaggcagagc  | tctccagggt | 60   |
| agcttcagtg  | gacaatcttt | tcattggttt | ctcagagttg | tttcttccaa  | tagcctcttt | 120  |
| tcagctaggg  | gtctcactct | gtcaccacga | caagagtgcg | atgggtgtgat | aatagctcac | 180  |
| tgcagcctca  | aattcctggg | ctcaaagtat | cctgttgccg | cagcctttca  | actagttggg | 240  |
| agtacagggt  | catgccactg | cttctggcct | tttttttttt | tttaaatttt  | tcataagatg | 300  |
| gagggttttag | tatgttgctc | aggctagtct | catactcctg | agctcaagtg  | atcttcccat | 360  |
| cttgacctcc  | caaagtgcga | ggattacagg | tgtgagccac | tgcacctggc  | cccagaagat | 420  |
| aatttttttat | ttgtctttta | ctctatgttc | aaattcttca | attttttggg  | agactctact | 480  |
| ttttcaattt  | gtagagcttg | catgaatagt | gttttccttc | tcttgaagtt  | tagagagatc | 540  |
| atgtactgta  | attcctgagc | caccttgctg | taacaaattt | tccagttctt  | caatcttttc | 600  |
| ttcctaattg  | cttagatttt | cttgatgctt | acaacttatt | tccctcaatt  | tctgttgatg | 660  |
| aacattctgt  | aatactgata | attcaagctg | atgggtcatc | gtatcctgac  | ttcttttttg | 720  |
| tttagactcc  | ttgatgatgt | taatatgttg | tgtttgtagt | ttgtagattt  | cattttctac | 780  |
| aaaactagtt  | gttcctccta | ttttataagt | ctgagcaata | catttccaat  | ggccaactgg | 840  |
| agactcaagt  | tttagaactt | cattggacta | tctgtttatt | tcttggtatg  | atgaaattat | 900  |
| gtcataaaaa  | cccatgtaag | cgctgtggaa | cactgaagca | tgatgggtac  | cacatggaat | 960  |
| ggagggggatg | cagtgtggat | gggaacctcc | ggccttccct | gaatgtgctg  | actccagggc | 1020 |
| tggctgccgg  | tcctgcaacc | gatcctgtag | tgccttgctt | cttggttttag | gaaggctcat | 1080 |
| ttctacctct  | ttctgttgta | attgatgtcg | ataactttta | gtttgctgcc  | ctatctgaag | 1140 |
| ctctgatgct  | tcctaggtct | ctcctaggtc | actaaaaaga | tcttgaagtc  | cctcattctt | 1200 |
| tgatattaag  | aattccaaac | tggcatcagt | ctcctttatc | ccatagttag  | ggagctcttt | 1260 |
| cctttttcta  | tgacatttag | gagcacattt | gagatgtggc | tgatgaaaga  | agccacattg | 1320 |
| ctgcccattcc | aatgcaaaga | aggggcttac | ctggagccaa | ggccacccaa  | ccaggaagac | 1380 |
| atgagtgtgt  | gagcacgtgt | gttaaggaaa | acacacattg | actttaattt  | tttttttttt | 1440 |
| tttttttttt  | tcgagacagg | gtctctcact | ctggttgccc | ggctggagtg  | cagtggcgcc | 1500 |
| atctcggctc  | actgcaacct | ctgcctttcg | ggtaaaagcc | gttctcctgc  | ttcagcctcc | 1560 |
| tgagttagctg | ggattacagg | cgtccaccac | cacgcccagc | ttaaatttgta | ttgttagtag | 1620 |
| agacaggatt  | tcaccgtgtt | ggccaggctg | ctctcgaaat | cccagctca   | agtgatctgc | 1680 |
| cccctcggcc  | tcccaaagtg | ctgagattac | aacgttgaa  | cactgcgccc  | tgctagaaac | 1740 |
| agctttttcat | acgttgaaat | aaacgagagg | gtgaccgggc | agcgttgggg  | tcggggaggc | 1800 |
| caggcggagg  | aggcctaggg | tcttctcgcc | cggggccttc | tagctcttcg  | cccgtgtcag | 1860 |
| gtaaggcact  | gttagcctcg | gctcggttcg | actcggctct | actcgggctc  | agctcggctc | 1920 |

|            |            |             |             |             |             |      |
|------------|------------|-------------|-------------|-------------|-------------|------|
| ggccagacct | agagggcggg | cgggcggtgc  | cactggaagt  | gacgaggcga  | gggcggggcc  | 1980 |
| gccggcccg  | ggagccaccg | ccgcgcgcgc  | gtttgggccc  | ggaagcgatg  | tagtagctgc  | 2040 |
| caggctgtcc | cccgccttgc | ccggcccgag  | ccccgcgggc  | cgccgcgcgc  | accgccgcca  | 2100 |
| tgaagaagca | gttcaaccgc | atgaagcagc  | tggctaacca  | gaccgtgggc  | aggcgagtgc  | 2160 |
| gccgggcagc | acgggggtcg | caccggggct  | gggggcggag  | ggcgaggggc  | gcgggggccc  | 2220 |
| gacggctcct | ccgcggtccg | gcggctctga  | gctgggcccgc | agcccttgc   | cgagaccagc  | 2280 |
| ggggcacggg | cccgggggct | gcgcgcgcgc  | gaggccccgag | cgccgcgctc  | caggcgggccc | 2340 |
| gcctgtctct | cagcgccgcc | gggcccccca  | gacctgcagg  | ggagggccgc  | cgccctctcc  | 2400 |
| gccacaccgc | ggggtccctt | gcccattgtc  | cctgccccgg  | gagcatcgcc  | ctcggggagt  | 2460 |
| agaccgggtc | cttctctctc | cttcccgggg  | gccgagccag  | ctgggatcgc  | tgccctgggc  | 2520 |
| tcaacaacgg | tgacttctgt | ccctaaccgt  | gtgccgagcg  | ctgtgctgtg  | gggggcggca  | 2580 |
| gtcccaggct | ttcccgggtc | tcccgtgttt  | tgcgagtcct  | tctcctgtaa  | gtgcatggcg  | 2640 |
| gcaagaaatg | gctagaggga | catgaaagcc  | agccggattt  | gctcagttag  | ttcagaacgc  | 2700 |
| cctttgaggg | aattcggagg | tggtgctgtc  | tcaaaaccag  | ggctcctagg  | aactggactg  | 2760 |
| ctgtgcgacg | ttcttgacat | ttagaaaatta | ggaattggcg  | gaaaaggatt  | atggagacgc  | 2820 |
| cttgcgcca  | tttaaaaagt | ctcaccttag  | gtttggaac   | aatgcttct   | ttatcttctt  | 2880 |
| ttgctacgg  | tgaagtgcct | aacaagaaac  | gttattgatt  | attaaatggc  | aggctagacc  | 2940 |
| agagttggta | gatcagggtg | tcagaacaag  | aatgattttg  | tggtttttga  | gagtttctgg  | 3000 |
| aggtagctgt | catgtgctgt | attatctggg  | gctaataatt  | caaggtcttt  | cagggcagct  | 3060 |
| ggctgtactg | taccgattta | gtgtttattc  | agcaaagaga  | tacgaaagta  | tgaatttctc  | 3120 |
| acagctcttc | ttttgatttt | ctgtttttta  | cagttaaggg  | gagtttggtt  | tggctgaagc  | 3180 |
| acgtgggaca | cttctttttt | ttgagtgtat  | gaaaataact  | ttacttcctc  | tcgagttttc  | 3240 |
| taaatttgct | ttttactgtt | tcatttcctc  | catctttttg  | cttagtttcc  | cttgtttaac  | 3300 |
| tttttcgatt | ccctaccgta | ttattgtggt  | gagaattaac  | tcttattttc  | agggttaatc  | 3360 |
| gctgccccta | aagcccagac | aaacctactt  | ttctgttatt  | tgcaggaaaa  | ttaaagaaat  | 3420 |
| aatgctgaga | ggaaggtaga | cgtgtggtaa  | tggcggtcta  | tgtttcaagg  | aacagtttac  | 3480 |
| aagcacatga | taatttcttg | tgagtttctg  | acccttggtt  | gtgttctgag  | caacgtgcac  | 3540 |
| tgtggaacta | gtatttagta | agtgccaaag  | tacatttgct  | aaatagtcgt  | ttggcttggt  | 3600 |
| tttacattgt | tcgtgacagg | taagggaact  | tcactctttt  | tatacaaagt  | tctgagactt  | 3660 |
| aaatctacca | agctatttag | ggtctctttg  | actcctgggt  | catcttagag  | gcttctccct  | 3720 |
| tcacactttt | tttttttttt | gagacagggt  | ctccctttgt  | caccaagct   | ggggtgcagt  | 3780 |
| ggtgcgatct | tgtctcattg | cagccttgac  | ttccctgggc  | tcaagcgacc  | ctctcgccct  | 3840 |
| agccacctat | gtggttgga  | ctacaggtgg  | gcaccaccac  | atccgcta    | ttttgtattt  | 3900 |
| tttgtagagt | ggggatttgc | catgttgctt  | agggtggtct  | cgaactcctg  | gcctcaactg  | 3960 |
| atctgcctgc | cttggccctc | caaagtctct  | ggactacaag  | cgtgagccac  | cttgccctggc | 4020 |
| accttcacat | tttaaaatc  | cggccatgct  | tgcctacctt  | cagtttccac  | aggaggtctt  | 4080 |
| gctttcttac | ctgctagcat | ctacttgga   | ctcctggaag  | cctctccac   | cacacctttt  | 4140 |
| ctccaggcac | ctcttgcctc | ttcttcagcc  | ttctgggaaa  | ggctccctctg | cctctgaaag  | 4200 |
| gccttctatg | atgctacagc | atagattgga  | tgcctctcct  | ggcggttctt  | gtaatcctgt  | 4260 |
| gtagcacttg | cttttctgtg | ctgtgactgc  | ctcttggtgtg | tggttctccat | cagataaata  | 4320 |
| ccttgagagt | ccttgctgtg | tctcctttga  | ttcccagggt  | ctgctgtggt  | tcctacccca  | 4380 |
| tggccagggt | gcagtagaca | ttgttaattc  | tggattttga  | gttcttacta  | gatcgccctg  | 4440 |
| gtggtgtggg | cccaggtatg | ggaaaacatg  | aagtggatag  | agtagatggt  | gattcatgct  | 4500 |
| ggagctgtaa | ttctgggcct | gacctttgac  | tgtcttttaa  | aatctttatt  | gctagatgcc  | 4560 |
| agtggaaagc | gaagctatta | cagaactatt  | aagggtgtgg  | caattatgca  | cccaaagtca  | 4620 |
| gaacatctgt | ttttaactgg | gaaacctggt  | gcttccttgc  | tggtgatttc  | ctagatgtgt  | 4680 |
| gtgtgtatgt | gttttctgct | taagtaatca  | gaaaggacta  | aggaagataa  | acggaggctg  | 4740 |
| gagagtgcct | agaattgtta | ctgcttgga   | gtaggtggtt  | ggttggcccc  | agaatcagga  | 4800 |
| ttctgggtgt | ttttagggtc | agatgaaggc  | tacaaagcaa  | agggtttttt  | tggtttcgcc  | 4860 |
| cctgcgatct | aggtggagaa | ggaagttata  | tatgtgaatg  | tcatgcccac  | cgtgttttgg  | 4920 |
| tttatcaatt | tgtggaattc | taggtggtgt  | cttgcaagtga | gatattctcc  | tcagaaggga  | 4980 |
| gacctttgag | tactttcact | gtaaggttcc  | aggggaggga  | cttgtagaga  | attagtaatg  | 5040 |
| cctggaagga | atgagttcgc | atgatgcagt  | ttgtttacga  | tgggtgggta  | agtctatttg  | 5100 |
| agaagacggc | ctgaaactca | caggggcaag  | gcttatgagg  | tggtctcatg  | gtgtgagtgt  | 5160 |
| cccaaagaag | agaagtagga | tggttctttt  | agtcacactg  | ccttttggtg  | attcatgcat  | 5220 |
| tcaacagaca | cttgttgagc | ctacactgtg  | tcctgttatc  | cagggtatta  | aagaatcaaa  | 5280 |
| ggtgaatacg | ggcatggttt | ctgccctgag  | ggagctcagg  | agatacgtgg  | aagaggtagg  | 5340 |

|             |            |             |             |             |             |      |
|-------------|------------|-------------|-------------|-------------|-------------|------|
| caggcaaaaa  | ataattatat | acatgagata  | agtgccttaag | agggatggct  | aatgcacaga  | 5400 |
| gcaaaaccca  | gctgtcattg | gattgagggg  | ggtaacaaaa  | gcttcccaga  | ggagaaaatc  | 5460 |
| tgagcacctt  | tctctgcctt | cattttcaag  | cccttatttc  | aaatatctct  | tgtattgatt  | 5520 |
| aggtctcttt  | tgggtgtaag | aaaacccagt  | tcatagcaaa  | gacgggaatt  | gattggctca  | 5580 |
| taagtacca   | aaagagcctc | taataagtag  | tgtggctgca  | gatttggett  | cttctggggg  | 5640 |
| ttccactctt  | tttttttttt | tttgagacgg  | agtctggctc  | tgtcacccag  | gttggagtgt  | 5700 |
| agtggcgagg  | ctcactgcag | cctccacctc  | ctagggtcaa  | gcaattctcc  | cgtctcagcc  | 5760 |
| tcccaagtag  | ctgggactac | aggcctgtac  | caccatgccc  | gactgatttt  | tgtattttca  | 5820 |
| gtaaagatgt  | ggttttgcca | tgttggccag  | gctgggtctc  | aactcctgcc  | ctcagatgat  | 5880 |
| ctgcccacct  | tggcctccca | aagtgtctgg  | attacaggca  | tgagccactg  | cgctggcct   | 5940 |
| cggttccact  | ctttaggtag | gcactgtgtc  | cactgggaga  | cttccacatc  | ttccaagtct  | 6000 |
| cagaggga    | gaatactcat | ctcgcagtca  | ctgtggccc   | agtcacagga  | ttggctctga  | 6060 |
| atgcttctgg  | gtcacatgcc | tttccccaga  | aatggactgg  | agtcagcgca  | cccaaaccat  | 6120 |
| atggactgag  | agtggtatgt | aatgggtggt  | aatcaggcaa  | gaaataaagg  | tcatggtgtg  | 6180 |
| tctttttag   | ccctgctaaa | aagagagatg  | ttttgtttct  | tgaaaaccct  | tagatgcaga  | 6240 |
| tcatcaccaa  | tgggtgtttt | ggggagatga  | tgtcttgagt  | agaggaagga  | gtacactggg  | 6300 |
| atgaagacct  | tgaagttaca | gaagtatcaa  | ggagaaaaaa  | aatttgagag  | acaactagga  | 6360 |
| gagcatagta  | ccgaggctct | gatagggagt  | gtctccttgg  | gtgttgattt  | cttccctgac  | 6420 |
| tgaagtttcc  | cttgagggtc | tgaatgcttt  | cacagatagt  | tgttttttga  | gaaccaagg   | 6480 |
| ttgtaaacc   | aaatgcctag | agggcgaggc  | cagtaaaatg  | aatcagtgtc  | ttgggccatg  | 6540 |
| tgaaggcctc  | aggggacctg | gaggactgtg  | tcccaccaa   | ggggctgctg  | tggtaatgta  | 6600 |
| ggcccagtg   | ggaccacctg | tggagttttc  | ctgaaatctg  | cattttaact  | agctggcggt  | 6660 |
| taatccaaat  | taaactacgg | ggacactata  | tgcagctgaa  | caaaatattt  | ctgtggatca  | 6720 |
| cccaactgct  | tgtctagaag | gactcagaaa  | ttgacagtcc  | ctctttttca  | tttattcccc  | 6780 |
| tgtaccttac  | cctgatgttt | tcagttcttt  | ggatttggtg  | aaaaacagct  | catcctttct  | 6840 |
| ttactaaaat  | cttgaaaagg | tctgatagta  | acagtctata  | acatttctat  | ggtgggttag  | 6900 |
| tttaciaaag  | gctgtactaa | accacctggc  | ttggatttcg  | tctcctgaca  | atgataactt  | 6960 |
| ctctctgaca  | aagatggaaa | cctggctggg  | tggggtgggg  | tggctcacgc  | ctgtaatcct  | 7020 |
| gacactttga  | gagcccagg  | taggaggatc  | acttgaacc   | aggaatttca  | gaccagcctg  | 7080 |
| agcaacatgg  | tgaacccgg  | tctttacaaa  | aaatacagaa  | aactagccag  | gagtgggtgt  | 7140 |
| gtttgccctg  | ctcagctgtc | tgggaggctg  | aggtgggagg  | atcaactgag  | cctggaaagt  | 7200 |
| cgaggctgca  | gtgagctgag | atcatgccac  | tgcactccag  | tctgggtgac  | agagcaagac  | 7260 |
| cctgtctcaa  | aaaaaaaaag | aaaaaaaaaga | ggaagaaacc  | tgacttttcta | agtttgaca   | 7320 |
| gttactgagt  | agtggctgag | gcatggcttg  | gggtccagggc | ctcttctctg  | ggttcccaag  | 7380 |
| tgtttttgag  | tacaggaact | gggctgcctc  | ttcaccaggg  | aaggattagt  | gtttattaat  | 7440 |
| gtttattaaa  | catcttctgt | gcttatgaag  | ctgctgggct  | tgggtgcttg  | catactttta  | 7500 |
| tttcattgca  | ttctcatagc | cacctcttga  | ggtgatgtta  | cttatttctg  | atttaatgat  | 7560 |
| gaggaagcca  | gagatcaaag | aggtcatcaa  | gctcgcaaga  | gacagagccg  | tggacccaaa  | 7620 |
| cccaggtttc  | tgattctgca | gcagctataa  | attctgatca  | cagagatcta  | atgacctcta  | 7680 |
| ggagtcttcc  | actcctagga | ggtatgtaga  | atggaccact  | cactaggtag  | ttggatccac  | 7740 |
| taccagcaat  | gtgaattctc | acactgagtc  | aaaatgtgtc  | tctacctact  | gatcccagaa  | 7800 |
| cagtccccctg | ctgccgaatt | gaatgaatct  | catctctctt  | ccctgagtca  | gccctgcctg  | 7860 |
| tatttgatga  | tcacaaacct | tatccttacg  | ttgccagcag  | taacattctg  | catccctcac  | 7920 |
| ccactccact  | gtgtcctttt | cctcccactg  | atcttcactc  | tacctttcct  | tccccccacc  | 7980 |
| cttttttttt  | tttttttgac | ggagtctcgc  | tctgccgccc  | agactggagt  | gcagtgggtac | 8040 |
| aatctcgact  | cactgcaacc | tccacctcct  | gggttcaagc  | gattctcctt  | cctcagcctc  | 8100 |
| ccgagtagct  | gggcttacag | gcatgagcca  | ccaagcctgg  | ctaatttttg  | tatttttttag | 8160 |
| tagagatgga  | gttttgccat | gttggccagg  | ctggtcttga  | acccttgacc  | tcaggtgatc  | 8220 |
| caccacctt   | ggcctcccaa | agtgtgggg   | ttacaggcgt  | gagccaccac  | gcctgccac   | 8280 |
| tctgcctttt  | ctaggggaac | tctgaacagt  | atttctgaga  | agggatagg   | aatgtgtgct  | 8340 |
| ttgcttcaat  | ctgagtggtg | tccatcaacc  | tctccataga  | gcagggtgga  | aagaggtcct  | 8400 |
| cttgctggtg  | cagcagcttc | tcaatctcat  | cttttatggc  | cttattatgt  | agtttacatg  | 8460 |
| ttaagaaatc  | cagaagtatt | tatagttgag  | tgaaaatcca  | ttctttactg  | gggggaaaaa  | 8520 |
| atgaactcta  | aaaccataaa | aatgatgaac  | cagtagaaaa  | ttttcatctg  | taaatttgaa  | 8580 |
| ccataaaagg  | atatgttcat | ttagcatcat  | ttttatatgt  | gtaagcgga   | tgttacgcta  | 8640 |
| ttatggaatt  | gcctttgtag | cagagtggac  | gaggcaaaac  | cttccaagtt  | tgattatggc  | 8700 |
| ctagggcgct  | gcagtcagta | cgtgcaccgt  | gcatttttgt  | cagaccacag  | gatgtttcac  | 8760 |

|             |             |             |             |             |             |       |
|-------------|-------------|-------------|-------------|-------------|-------------|-------|
| ctttatcatt  | ctattttcagt | ttctcaagtg  | taggtagatg  | ctgtagtaac  | tagtgaagta  | 8820  |
| caaatccatg  | taaaaatggt  | aaactctcat  | ctgttcgctg  | tgtttgatt   | ttcttaaagg  | 8880  |
| tagggattaa  | aagtgttaata | ggcccacagt  | cccttatctg  | gaatcattgg  | gccagataag  | 8940  |
| ttttagaatt  | cagaattttt  | cagatttttc  | taaaagtaat  | aatatgcata  | tattgttggt  | 9000  |
| atgtaatact  | tccagtgggg  | tctgggacaa  | aatcccataa  | tcaaacatta  | gtatagcaaa  | 9060  |
| atatatatac  | atatattccc  | actgaatgga  | tatgcatgaa  | gattatgcat  | agtttaatat  | 9120  |
| cagttcaggt  | caacttttat  | tgccaaataa  | gttacaaaaa  | aagatttggt  | ttttagaact  | 9180  |
| ttttggatta  | caaaatgggtg | atagggattg  | tggacttgct  | ttacttttag  | ttatatacct  | 9240  |
| attgagagtc  | tgttaaattt  | ttttactgta  | aataatattt  | cccatattcc  | caaagggttg  | 9300  |
| aaaccacaat  | cacataagca  | ggggtcacaa  | accgaagtgc  | caggttgggt  | aaaataaata  | 9360  |
| agtgaatgg   | gaggcggtga  | taggacagta  | gggaatgtgg  | ggactgcagt  | gaactggtga  | 9420  |
| atacatgttc  | attcaaagg   | gagagctgct  | cttcagttct  | agccacttgt  | tgccatgggtg | 9480  |
| aacgtgggag  | tagtgaagct  | acatcttcca  | tttttgatga  | tactccagaa  | tgctgatttt  | 9540  |
| catgtgaagt  | ttcttgatat  | ttaaatgttg  | gcaactaaaa  | agaaaaaac   | ccactgttg   | 9600  |
| ccaaagaaaa  | catctgaaag  | cattatctgg  | ctgtgggctg  | cctgctttca  | tttgtagttt  | 9660  |
| agagactaat  | gcttggtgta  | tgaaaagtgt  | tcagtgaagc  | gggtgcagtg  | gcccattgctt | 9720  |
| gtaatctcag  | cattttggga  | ggctgaggtg  | ggagatcac   | ttgagaccag  | gagtttgaga  | 9780  |
| ccagcctgag  | caacatagca  | agatcctgtc  | tctacacacg  | caaaaagtgt  | agccaggcat  | 9840  |
| ggtagcatgt  | gcattgtagt  | cccagctact  | tgggaggtct  | aggtgggagg  | atcgcttgag  | 9900  |
| cctgggaggt  | cgaggctgca  | gtgaactgtg  | atcctgccac  | cgtgctccag  | cctgggtgat  | 9960  |
| ggagtgaagc  | cctgtctcta  | aataagtaat  | ttgtcagtg   | cattcgtaat  | gaactacttt  | 10020 |
| cttgagatat  | ggatgggtgc  | atttgcttta  | ttgttattca  | ttatgcttta  | catacacact  | 10080 |
| atatgttctt  | tgacataaaa  | atatttcata  | ataaaaatct  | aaagaagttg  | ataagcactt  | 10140 |
| tatttttagca | ttgccttatt  | ttctagccat  | taggaaattt  | tcatctgtaa  | atttgaaact  | 10200 |
| ttaaacttat  | ttatcttgga  | aaagggactg  | aaagccccac  | ttcaaaaata  | ggagccctct  | 10260 |
| ttttaaaaag  | taggagttaa  | aagaggttag  | attgtaattg  | tcattccttt  | ccagggccat  | 10320 |
| agtgatctga  | agtaacattg  | ggtattcact  | gttatattgc  | gacagagaaa  | tgctcctcgat | 10380 |
| ctcctttctt  | ctcagaccgt  | tcccctgggt  | gatctcagcc  | ccataactat  | cacctcatgg  | 10440 |
| tgacagtttt  | atgcctccag  | ccctgggggtc | tctttatccc  | tagaatgatg  | ctatcatctc  | 10500 |
| tctcttgaaa  | aatctctgct  | gacatggcct  | gataaaaattg | aacctcatgaa | cttcttcttc  | 10560 |
| aaattggctt  | catttccctc  | tatcttctag  | tctgtgagtc  | acgagacttt  | ggcctgcagg  | 10620 |
| gtaaatccag  | cccaccgctt  | gctttgtgaa  | aaagtttact  | ggaacacagc  | cactcactac  | 10680 |
| agtggcagg   | ttgaatagtt  | gcaacagtga  | cccatatggc  | ctgcaacgcc  | tatggtattt  | 10740 |
| atcctctggc  | acttcataag  | aagcatgtga  | cccctgccct  | agggcattaa  | atgccctcac  | 10800 |
| accctcccta  | gtcacctgtc  | agteccattc  | tttttccctc  | atcatctcag  | tcagggtgagg | 10860 |
| agactggaaa  | ttctgacctc  | ttgattatct  | tttttttttt  | tttttttttt  | ttgagacgga  | 10920 |
| gtccctctct  | gtcactcagt  | ctggagtga   | gtggcatgat  | ctcggctcac  | tgcaacctct  | 10980 |
| gtctcccggg  | ttcaagcgat  | tctcctgtct  | cagcctcctg  | agtagctggg  | actacaggcg  | 11040 |
| cacaccacca  | tgtccggcta  | attttttttt  | ttttttaatt  | tttagtagag  | acggagtttc  | 11100 |
| accatgttgg  | ccaggctggt  | ctggaactga  | ccttgattat  | ctgttgactt  | catctttgct  | 11160 |
| tcccagaggc  | catccttcc   | gttaccttaa  | ttaggtgctc  | attatttttc  | acttgagtc   | 11220 |
| aaatttgtct  | tccagttggc  | tttgctgcct  | tgagctggct  | tgagctggat  | tgtatctaca  | 11280 |
| attccccaac  | cttctgtttg  | acatggctcg  | tcaccatttt  | aatgattata  | gctgctcacc  | 11340 |
| tctaaattac  | tttttcatga  | tgaattctct  | agaggttaga  | atcactagat  | ttataggaaa  | 11400 |
| ttaatgttta  | tatcatgaca  | gtattgccag  | gttgctcctc  | aagatgataa  | tgccgtcatt  | 11460 |
| tagttttag   | tgcaaaaagt  | gatgttgctc  | aataatgtgt  | gtcattatgc  | atgacatgat  | 11520 |
| gaatatcaca  | tttcaccatc  | accttagttg  | cattagatat  | tgctcctaaa  | aaatttggtt  | 11580 |
| tctatttaaa  | ttttttccac  | taagttcaaa  | atgaatgtgt  | tcttacattt  | gtatttcttt  | 11640 |
| atatgagttt  | tctctgtatg  | tgctatttgt  | ttgtcatgga  | attaacgttt  | agttatcagt  | 11700 |
| ttcattgctc  | agttaccaat  | ttagttcaac  | aaatgtctct  | tgagaacctg  | tcaaatgata  | 11760 |
| ggggctgggg  | ttaaaaatat  | aattgatccc  | tggggacttg  | aatgtggaga  | cagagctaca  | 11820 |
| aacagataat  | ctgaatgtaa  | ccagttttat  | ctattctagc  | agatcttagg  | tgctgttaat  | 11880 |
| gaaatcttaa  | tgccattctt  | tgatgtattt  | atgtacttta  | atataaacia  | gttagcattc  | 11940 |
| ttgttcatag  | atatgttcc   | caacagatac  | agtgatgaaa  | ccttgccat   | tcatgactag  | 12000 |
| gtacagattt  | aatacaagtt  | tcagaagata  | aagctgattc  | tataaaaaat  | ctaagatttc  | 12060 |
| tataagaaac  | tgtcttttaa  | ataggtagag  | cctattattt  | atagcaataa  | aaataatagg  | 12120 |
| catgtttgat  | ataaaaaaa   | tattcaggct  | gggtatggtg  | gctcacgcct  | gtaatcccag  | 12180 |

|             |             |             |             |             |             |       |
|-------------|-------------|-------------|-------------|-------------|-------------|-------|
| cactttggga  | ggccaaggcg  | ggtggatctc  | ctgaggtcac  | gagtttgaga  | ccagcctgac  | 12240 |
| caatatggta  | aaaccccatc  | tctactaaaa  | atacgaaaat  | tagctgggca  | tggcaggcag  | 12300 |
| gcgcctgtaa  | taccaggtta  | ctcaggaggc  | tgaggcagga  | gaatggcttg  | gacccaggag  | 12360 |
| gccgaggttg  | cagttagcca  | agatcgacc   | actgcactcc  | agcctgggca  | acagagttag  | 12420 |
| actccatctc  | aaaaacaaac  | aattattcagt | tcatcttcagc | catgcatctt  | gtgagactgt  | 12480 |
| gtttcctctg  | tgtaatttac  | agcttattga  | ttatttgcac  | tggctacttc  | cttttgatta  | 12540 |
| tcccaagatg  | tttctctctt  | cctctccttt  | cccacagctc  | ttcttttttg  | acgtcttctt  | 12600 |
| tatcagagat  | accttttggg  | ttagtagtca  | atttgatctc  | tcctttaatg  | tttcattagc  | 12660 |
| atcttctctg  | tagttactca  | gtgttcttcc  | acatggtttg  | gccaaattta  | tacttcttaa  | 12720 |
| agagtttaaa  | ttagaaatca  | cagaccaagt  | aaacagggtg  | tcaaatgaat  | ataaatctta  | 12780 |
| aataaatgta  | cagaaattat  | taaaagcacc  | catcagctgt  | tacctgtcag  | tgtgaatatg  | 12840 |
| tataaatcaa  | gcagcttgga  | tatcacgtgg  | tcattggata  | ctttcacatg  | cctgggctgg  | 12900 |
| agtgaccatt  | tgaaccatg   | gccagcggta  | ctttggggaa  | atacaccgaa  | gtgtttctac  | 12960 |
| ttcaccagat  | acagttagtg  | cttggatgga  | gggagtgtgg  | gcacaggcac  | aaagcagggg  | 13020 |
| agtctctgag  | atgtgcctgg  | gggttcagt   | aggactccgc  | tgggcatgta  | acgtgagcaa  | 13080 |
| tcatttttaa  | acaaattttt  | tcattggagg  | agagtcttgc  | tatgttgccc  | aggctggtct  | 13140 |
| ccaactcctg  | gcctcaaaca  | actctcccat  | cttggcctcc  | caaagtgtgt  | ggattacaga  | 13200 |
| cgtgagccac  | tgtgcctggc  | cttgagtgat  | cttaataact  | ggcagggtgat | agagaattcc  | 13260 |
| aagggttagag | atagtcctag  | gggaaaccta  | acacttgaag  | agtttatcct  | ttactttaat  | 13320 |
| atcttttttt  | tgtttgtaaa  | ttgggaaaaa  | ggcaaccatt  | atgtgattct  | tagcagggga  | 13380 |
| gcaactctct  | ccagctcttc  | tattttcaaa  | tcacttgggt  | agtgttgcct  | atcttctgat  | 13440 |
| ccatttggtta | agtatttgta  | gtattttaa   | tcacagcccc  | tggttgcatt  | tccatccaat  | 13500 |
| agaagggtgta | agttgggtct  | tcaaagcttt  | tttttttttt  | gagatggatt  | cttgctctgt  | 13560 |
| cacccagggg  | ggagtgcatt  | agcacagtct  | cagctcactg  | caacctctgc  | tccaagggtc  | 13620 |
| aagcgattct  | acctgcctca  | gcctcctgag  | tagctgggat  | tacagggtgt  | cactaccact  | 13680 |
| cccggtctaat | ttttgtattt  | ttagtagaga  | cagggtttca  | ccatgttggc  | caggctgatc  | 13740 |
| tggaactcct  | ggcctcaagc  | aatcagccct  | cctcggcctc  | ccaaagtgt   | gggattacag  | 13800 |
| gtgtgagcca  | ccgcacccag  | ctgggtcttc  | caagttttaa  | aaagctttta  | ggccaggcat  | 13860 |
| ggtgggtcat  | ggctatactc  | ccagcacttt  | gggaggctga  | ggcaggcaga  | tttgatgcca  | 13920 |
| ggccaacacg  | gcgaaatcct  | gtttctacta  | aaaatgccaa  | aattagccag  | gcattgtggg  | 13980 |
| gcacacctgt  | aatcccagct  | acttgggagg  | ctgaggcacg  | agaatcgctt  | gaacctggga  | 14040 |
| agcagagggt  | gcaatgagct  | gagatcctgc  | cactgcaatc  | cagcctgggc  | aacagagtga  | 14100 |
| gacctgtct   | caaaaaaaaa  | aaaaaaaaaa  | aaagctttta  | agctagcata  | ctcttgtttt  | 14160 |
| atctgccttg  | tataagctga  | tggagacctt  | tgccccaat   | agacaatttt  | gttatatact  | 14220 |
| gaatatcaag  | tatcatttct  | cacaatgtaa  | cttatttatt  | tctctaattt  | ccattttact  | 14280 |
| tgtatatctc  | ctggttagagc | ctcttttttt  | tttttttttt  | tttttgagac  | ggagtctcgc  | 14340 |
| tctgttcccc  | aggctggagt  | gcagtggcat  | aatctcggct  | cactgcaacc  | tccgtctcct  | 14400 |
| gggttcaagc  | gattctcctg  | cttcagcctc  | ccgagtagct  | gggattacag  | ttgccacca   | 14460 |
| ccacacctgg  | ctaatttttg  | tatttttagt  | agagaggag   | ttttaccata  | ttggtcaggc  | 14520 |
| tggtctcaaa  | ctcctgacct  | catgtgatcc  | acctgccttg  | gcctcccaga  | gtgctgggat  | 14580 |
| tacaggcggt  | agccatcgcg  | cccagccaga  | accagtttaa  | tactcccatt  | gcttttgcac  | 14640 |
| ttttgtactt  | gctgggggtt  | ataataatcc  | tcaaacaacc  | ccaacatagc  | aggactaaaa  | 14700 |
| tacaggccat  | ccatggcctg  | gagcaccac   | ttttgagagc  | caggcgatgt  | tgattggctt  | 14760 |
| ctgtcgtcat  | ctgtggaagt  | ccatcggttag | aaaagcttct  | gttccagttt  | taggggggaa  | 14820 |
| tgtatgggtt  | agggctactg  | tggtagaact  | tggggaactc  | ttttcgga    | aagggtgaga  | 14880 |
| aagttggtgc  | tgtgggaagt  | cagctggcag  | ccgatggagt  | caggaccagg  | gaggaaggga  | 14940 |
| aagggaaacc  | agataggaag  | ctactgcagt  | aggctcagag  | aggtgatgac  | ggcagggcta  | 15000 |
| agacagcagc  | cttgggcggg  | gactgggaag  | aacattgaac  | accatgtttg  | ggctgaagaa  | 15060 |
| aagagcaagg  | gaagaggtga  | ggagcttcag  | gttaggggtt  | atgtagatgt  | tatttacata  | 15120 |
| gggaacagta  | attcttcaact | ttttcattgt  | tttacaatga  | ttccttttta  | gaaacatata  | 15180 |
| attgtgatat  | tttctttgac  | cttttatttg  | gctttctatt  | ctattccatt  | gatttatggc  | 15240 |
| tttgggtgtg  | tgtatatgtt  | tgcacaaaca  | tttttttttt  | tttttagatg  | agtctcgtct  | 15300 |
| tgtcacccag  | gctggagtgc  | agtgggtgca  | tcttgggttc  | ctgcaacctc  | tgtctcccag  | 15360 |
| gtttaagcaa  | ttctcctgcc  | tcagcctccc  | cagtagctgg  | gattataggt  | gcccaccacc  | 15420 |
| atgccgggct  | aatttttgta  | tttttagtag  | agacagggtt  | tcgctttggg  | cagattgggtc | 15480 |
| ttgaactcct  | gacctcaggt  | gatcctccta  | ccttgggtct  | ccaaagtgt   | gggattgcag  | 15540 |
| gcatgagcca  | ctgcacctag  | cctgcacatg  | tatgggttaa  | taactgttga  | tctgtaatat  | 15600 |

|            |             |             |             |             |             |       |
|------------|-------------|-------------|-------------|-------------|-------------|-------|
| gttttaaatt | gggtagagct  | ggctctcttac | aaatactctt  | tttcaggctg  | ggtttgtggc  | 15660 |
| tcacgcctgt | aatccccagc  | actttgga    | gctgaggccg  | gaggatcgct  | tgaggccagg  | 15720 |
| agttcaaggc | tgcaagtgagc | tgtggtcctg  | ccactgcact  | ccagcaagag  | accctgtctc  | 15780 |
| attaaaaaat | aataataaat  | attccttttt  | cagtatctct  | cttacttttg  | tataaaggcg  | 15840 |
| agttttggca | tctcatcttc  | tctagtttct  | agaaaaaatt  | atttaggatt  | ttgattgagt  | 15900 |
| tgggactcat | ttattcaa    | gatgtttatt  | gggtccctgt  | tgtgggctag  | gctctaaagg  | 15960 |
| ttcaaaaata | aataaaaccc  | aggtttttat  | ggcctaataa  | atctgtgaac  | taaactttga  | 16020 |
| gaattgat   | ctacaagatg  | agcattgcac  | atgactttgt  | gtgtacaatc  | ttttatatgc  | 16080 |
| ttcccaggta | tttttttttg  | ttttttaaat  | tgagaatagt  | gcctattttac | taaactatgc  | 16140 |
| aactgatcat | ttttgttatt  | ttaggtacat  | aatattatca  | gtgtgtgtgct | tctattttctg | 16200 |
| cttttgctat | ttagttcaat  | gatttctttt  | tcatccctta  | tttaattggg  | tagactccaa  | 16260 |
| aatagtgtgt | agctgtataa  | atgtttatag  | gaatattgtg  | taaagggc    | atgattctac  | 16320 |
| ctttattgga | catttcagga  | acatgataag  | gactatttta  | atcctgctaa  | aatacaagtg  | 16380 |
| ttgtaaatag | aattgttccc  | aatggaagtt  | tgcaagcaac  | gttctcctca  | ttttcgaa    | 16440 |
| acacaacttt | tagtgtgtct  | gctatttgag  | ctttattctg  | tgtctgtttt  | gtgtcatgag  | 16500 |
| gttggcagg  | gatcttaaat  | gcagaatgct  | gaattttag   | tagtccaact  | atatggagaa  | 16560 |
| aacaattgca | atgcacttta  | gatttaggaa  | caaattggag  | gagaaagttg  | agaaatggta  | 16620 |
| agaggagttt | taatggagcg  | tatgtggcag  | tatgcta     | tcacttctaa  | agaagaggtg  | 16680 |
| gttagcagg  | cacaaggcag  | tagactgaat  | tgtagcctct  | gaatctcagg  | gcagtcttta  | 16740 |
| ggaatggaaa | ccttgctgcc  | tgtagattta  | ggtagagggt  | ttaataaccc  | ccccgttgcc  | 16800 |
| agaaaaaatc | atccacacac  | agatttgctt  | ataatcttat  | ggacttcaca  | gacatcctca  | 16860 |
| agcgcagtg  | caaaaacccc  | aagattcaag  | aaaagccgtc  | cacatggctg  | gcagctcaag  | 16920 |
| aaagcctgcc | agttgtccaa  | gcaatgctta  | gttacagttc  | ccatgctggg  | agctgctctc  | 16980 |
| tagagaaatg | ttatttgcag  | atgtgcacct  | cgtgcgtctg  | tgtgtgttgt  | tctgcctgtg  | 17040 |
| tccaaaatac | atgctttttc  | tagatgggag  | cctttccccc  | acaaagcaga  | aatgtgttct  | 17100 |
| gtcatgggat | ttgatgatca  | tcaaattact  | ttccctcaag  | aattggcttt  | cttggcgatt  | 17160 |
| agttaattca | gttttcaaaa  | cttttagata  | agggcttaat  | caacgtaaaa  | ctgctttggg  | 17220 |
| gcagttgcat | tgtagtaaaa  | agtgtattgg  | acttgagtct  | gagggcttga  | gatcctgtct  | 17280 |
| gtactgttta | ctcgtgtgtg  | ctgtgacctt  | ggccaatca   | gccactctgc  | tgtgttecta  | 17340 |
| tacgtgagaa | acggctcctg  | ataccaccag  | gagcaagctc  | tgctgtgttt  | aagaagggtg  | 17400 |
| tgtgtgctag | ggaggcgtca  | tgagacagtg  | aggacataca  | gtgtgacaca  | gcaggtcagc  | 17460 |
| actggggaaa | atagccagg   | tagccttcac  | ttcactgctc  | tatgccaaaa  | tacattccaa  | 17520 |
| atgggttaaa | gctttcatgt  | aaaaaataaa  | accacaaaa   | aaatacaaga  | aaatatagct  | 17580 |
| tattgtggaa | agtactgcat  | gctttggcat  | aaaaatgtgg  | agaaagaaca  | ataaaagata  | 17640 |
| gcctgtaggt | gggacatgcg  | actcccacct  | gtatcccagt  | tgttaggagg  | gcgaggcagg  | 17700 |
| agggatcatt | gaggccagga  | gtttgagccc  | agcctgatta  | acatagttag  | gcccgtgtct  | 17760 |
| gtaaaaggaa | ttttggaaaa  | attagctggg  | tgagggtggca | caccctgtga  | gtcccagcta  | 17820 |
| tttcaggagg | ctgagataga  | agaatcctta  | gagcccagga  | gccggagctg  | cagtgagtca  | 17880 |
| tgattgtgcc | cctgcagtc   | agcctgggtg  | acagagtga   | accccatctc  | taaaaaataa  | 17940 |
| ataaataaat | aaataaataa  | ataaaacacc  | tgtagattta  | accacataat  | aactacactt  | 18000 |
| ctgtctgttt | tattatatca  | aagttaaatt  | taaaacgatg  | actaattgga  | aaaaactgag  | 18060 |
| agcaaccact | acagagggtga | atatactgaa  | tgtataaagc  | tctctagtaa  | ttttaagaac  | 18120 |
| tccgctctaa | tgagcagata  | tcacagacag  | aaacttctca  | gatgaaatac  | cgatgaccag  | 18180 |
| gaaatctgtg | agaccacttt  | aaaaaattcg  | aagtcattga  | agaaatgcaa  | agcttccagg  | 18240 |
| ctccactttt | cactgatgaa  | attggcagag  | tttgggacaa  | tgagatgttg  | ctgtcccggg  | 18300 |
| agtgtggatg | gggctgtgtc  | ctgtgatggc  | gggtgggact  | ggcactcttg  | tccagaaaga  | 18360 |
| cattcgccac | tgtgggtcaa  | gaagcacctc  | aaaggctctc  | accttgggtc  | cttgtccacc  | 18420 |
| tctgcccgcg | gtctctctct  | ctttcagcct  | cctctttccc  | acacagtcct  | tcccgcctcg  | 18480 |
| gcttgggtcc | ctttcttctc  | tgatgggggt  | aggcatgtgg  | gtgactgact  | tccaaggctc  | 18540 |
| tgtctacctg | gcctttttct  | ttcacctgtt  | ctgcggaata  | atagcctgat  | tcattcctct  | 18600 |
| ttttgggtcc | ttcaactcca  | tacctgggat  | tgggggcgtg  | gccccaaaag  | accctgcagt  | 18660 |
| cgtgcagtg  | ggggtgcca   | gcatttcatg  | gcctccaagc  | tcagctgggc  | tgaatgaatg  | 18720 |
| ctgccgtcca | gcgcttggct  | tagttttctg  | tcccgttttc  | ctgagtgttt  | ttgccagact  | 18780 |
| ttcacttttc | tgaaacctac  | ttcaccctac  | cccagaacac  | ccaccctctc  | tccttgga    | 18840 |
| acctgctccc | taatttcccta | agaaaactgg  | acatggccac  | ctttccccag  | tgtctgaggc  | 18900 |
| ccaggttgac | cogtgggtcat | ggttgccgtc  | accaccaccc  | tgccctggacc | ccaccctctg  | 18960 |
| tccaaggccc | cgccacctgt  | gccgctgtcc  | tgggcgctgc  | cttgccagcc  | tcccctctgt  | 19020 |

|             |             |             |             |             |             |       |
|-------------|-------------|-------------|-------------|-------------|-------------|-------|
| gccatgcacc  | tttcacctcc  | ctccatctgc  | tgctgtttc   | ttcttggctg  | ctcctcatgg  | 19080 |
| tcaggctttt  | ctcagccctc  | cccttccttc  | tggggctttg  | cgtcttcttc  | tgatcatccac | 19140 |
| gctctgcgtc  | ttgggttccc  | aggacctctc  | cctcccactt  | tcctgtccct  | gacgtccctg  | 19200 |
| tgccccgggc  | ccagtttgca  | tcattcagcca | gtccctcatc  | catgcttcac  | ccgcacctcg  | 19260 |
| ctcctggctt  | cttccttgcc  | ctccctgggg  | actcctatcc  | tgccccctgc  | cctgggttctc | 19320 |
| cttcgcgtgt  | gtcccagggc  | ctccatcctc  | agcctccgtc  | ttctctgcag  | ggtctgcttc  | 19380 |
| tgcatgaact  | ccccagatc   | cgtgtttgct  | gctggctctc  | acagcaggct  | cttcgtttct  | 19440 |
| ggaccagatg  | tcttttctgt  | gcttcagaac  | catctagaaa  | aaagggaact  | ggatatctcc  | 19500 |
| acctgaatgt  | tcaacaggtc  | ccttcaccca  | gcatttcag   | agctgacctc  | attgtacctt  | 19560 |
| catatcctcc  | cagtgtttct  | cttttggtga  | ggaaaaacac  | acattgtcca  | gccagtccct  | 19620 |
| caaggcagaa  | acctgggtgg  | catcctcagc  | tctccccct   | cacttcctgt  | ccaccccaa   | 19680 |
| gtcaccgagt  | cctgttcctt  | tctcctttgc  | agtggctctc  | tgtagccctgc | tctacctacc  | 19740 |
| cactatttag  | tgtgggctgt  | cctccatctc  | acttggatct  | cgtgttttgg  | ggactcttca  | 19800 |
| gattctctc   | catggcttcc  | ctaccggcca  | gcatactctt  | ccctcacata  | ttccacactg  | 19860 |
| cagccagagg  | gatctgccaa  | agaaataatt  | gtgataatga  | tagagaatgc  | gcactctgggt | 19920 |
| gtatactggg  | tgccttgac   | tagtccaagt  | gctaatagaca | gagaatatat  | atctgggtgt  | 19980 |
| gtactgggtg  | ccttgaccca  | gtccaagtgc  | taatgacaga  | atatgtgtcc  | gggtgtgtac  | 20040 |
| tgggcgctt   | gcaccagtcc  | aagtgtctaat | gatagagaat  | atgagtctgg  | gtgtgtactg  | 20100 |
| ggcgcttgc   | accagtccag  | gtgataatga  | tagagaatgt  | gcactctgggt | gtgtactggg  | 20160 |
| caccttgac   | cagtccatgt  | gctaatagaca | gagaatatgt  | gtctgggtgt  | gtactgggcg  | 20220 |
| ccttgaccca  | gtccaagtgc  | taatgacaga  | gaatatgcat  | ctggatgtgt  | actgggcacc  | 20280 |
| ttgcgctagt  | ccaagttgtg  | tattgacttg  | tttaataccc  | accagaccct  | gtgaagtcag  | 20340 |
| tatagtgtta  | tcccttttat  | aggtgggaac  | cagaagcaca  | gggagattga  | gtaacttgtg  | 20400 |
| tgacatgatt  | tctccatatt  | ctagacagaa  | caaaaaccat  | tttttttttt  | ttggttgtcc  | 20460 |
| ctatgttgcc  | caggcttgct  | tccaactcct  | ggcctcaagc  | aatcctcctg  | cctcggcctt  | 20520 |
| ccaaagtact  | gggattacag  | gtgtgagcca  | ccatgccagg  | aattttttga  | gctttctagg  | 20580 |
| aatcagcact  | ttgcttatat  | tatctctttc  | aatctttcca  | atctgtaaat  | tagatattct  | 20640 |
| taatattctcc | atttttacgg  | gaaaggaaat  | ggagacacag  | agattacccc  | gctcttaggt  | 20700 |
| gggtgaacggg | gctttgactc  | cctgcatatt  | tgctcttagc  | cacttcaccc  | acctacaagg  | 20760 |
| agctagcacc  | ttgcttgagg  | tagaggagg   | gcacctctctg | aacatgcttt  | agtgggtgtt  | 20820 |
| ttctgtttct  | gctttccgag  | ttgtgggtgg  | caaaggagat  | gtgcatgcat  | aagatgttct  | 20880 |
| cattactaag  | agtgtctctg  | atgataacaa  | aagaccaata  | tctgtttgga  | gcaatgtcca  | 20940 |
| gatattgatga | aatgtctagt  | ttgcctggta  | acgctgaaga  | aattttttta  | tgaatgtctc  | 21000 |
| atccccagaa  | gactctcgtc  | cctgccattt  | gatcagttga  | ttttataata  | tgagcattgg  | 21060 |
| taaatcttta  | ggaatacaac  | tatcataata  | acatgttatg  | gcacaacaaa  | tttaactgtt  | 21120 |
| actccactta  | taggttccctg | aaattattga  | tgatagggaag | attcttcagt  | gcagagaggg  | 21180 |
| atttaagacg  | ttatggggaga | catttttagtt | aagatgggtg  | actgaagaca  | tatttatattc | 21240 |
| cctccccccc  | caaaaaaata  | aaattcactg  | aaatgttggg  | aatttttttt  | aagtcttaga  | 21300 |
| agttaaaaaac | cattgtgctg  | aaatccctgg  | tgtacttatg  | aagaagtagg  | tggcttgac   | 21360 |
| ctgtagtccc  | agatactgga  | gaggttgagg  | cgggaggatt  | gcttgagccc  | aagagtttga  | 21420 |
| agtgaacctg  | gaccacatag  | caaagccctt  | ggtctcttaa  | aaaaaagaga  | agaaaaagtt  | 21480 |
| gggtctataga | gaagtaaaagt | gagtgcagtt  | ttatttgttg  | gttcattgtc  | caagcctggg  | 21540 |
| tttcccttgg  | ttaaatgcat  | gtaacagcct  | ttctgaagat  | tttttttttt  | acatttgctg  | 21600 |
| cctgggtactc | atttgaaggc  | ccagagtcctg | gcagagttcc  | tttccgtgtt  | ttccgcagtc  | 21660 |
| cttcagtttg  | gttcgcacac  | ctgatggcct  | agaattgggc  | tggcccttgg  | ctctcctgcc  | 21720 |
| cacctgggtg  | gtggattgcc  | gctggctcct  | actcagtaca  | aggcccagat  | actgaaaact  | 21780 |
| ttcatttagt  | cacttatgta  | ttcagcaaat  | aagtttgctc  | acaatcttca  | gcagatcccc  | 21840 |
| tgtacctgag  | cttaaatggg  | gtgggggttct | ccccagcca   | tgatcactgc  | ctctgctcct  | 21900 |
| ccctgctctc  | tcttccctct  | cttctccctg  | acctgggtgc  | tcttgtaacta | tccagcctct  | 21960 |
| gggtttccaa  | ctcatccagt  | aggtctcaga  | agccatcacc  | agtttcagga  | tatctttctg  | 22020 |
| atatcccagg  | tctgcattca  | ggccccctct  | gtcatgtctg  | taaccgcga   | caatttaagt  | 22080 |
| tgtctctctg  | tgccataggt  | tctaaatctc  | taaaatgggt  | atgacatggg  | ttggctgtgt  | 22140 |
| ccccactcaa  | atctcatctt  | gaattgtagt  | tcccataatc  | cccacgtgtc  | gtggaaggga  | 22200 |
| tcccatggga  | ggtaatttaa  | ttatcgggcc  | attaccctta  | tgctgttcta  | gtaatactga  | 22260 |
| gtgagttctc  | atgagatctc  | atgggtttat  | aagtgaactt  | tccccctttt  | gctcggcact  | 22320 |
| tctccttgct  | gatgccattt  | gaagaaggac  | gtgtttgctt  | ccccctccac  | catgattgta  | 22380 |
| agtttctctga | ggcctcccca  | gccctgcgga  | actgagtcaa  | ttaaatctct  | ttcctttgta  | 22440 |

|             |            |             |             |             |             |       |
|-------------|------------|-------------|-------------|-------------|-------------|-------|
| aattacagag  | acgtgggtat | gtctttatta  | gcaatgtgag  | aacagactaa  | tacaggttat  | 22500 |
| aatagtggta  | tcagtctcat | ggttgtcttg  | aggattaggt  | gggttaatac  | aagtaaagt   | 22560 |
| tgtattaggt  | ggttaagaac | agggtccttg  | aagtaatatt  | gccgagattc  | agagcctagg  | 22620 |
| tgggaaaccc  | tgggcaatcg | cttaagttcc  | ctgggtgcat  | cagtttcttc  | ctctgtaaca  | 22680 |
| cgggggtaat  | aatacttatc | ccgtagagtt  | cagttcttgc  | aaagcacctg  | gaacagtgtc  | 22740 |
| gagcatgtga  | tatgagctca | ataaatgtgg  | gctgtgggtga | tagtgacaac  | tcccagggac  | 22800 |
| cctgcacttc  | cctgttgga  | ccgtccttgc  | actggagtat  | aatggcttat  | tttccttgat  | 22860 |
| agtccttgag  | ctctggcaga | gcaggggccc  | tatcttactc  | atgatggctc  | atggaaggga  | 22920 |
| accgaaaat   | atttggtcag | tgactaacca  | aatgaaaagt  | tagtgcaaag  | tatgcatgac  | 22980 |
| accagcctgt  | gggtgaattt | gttgatgggc  | tgtgtagctc  | cactcagtta  | aggcttactt  | 23040 |
| atcctgaata  | gcttttttga | caaaacacat  | cattaaaaag  | caatcagatt  | tctgttttaa  | 23100 |
| ggtatttaca  | gtgtcctttc | atccatcagg  | cactcctttc  | tttgacctta  | gaaaagggca  | 23160 |
| agtgagagat  | taggggtgtt | cccacccaga  | atctaccatc  | atccctcaaa  | aactgcctcg  | 23220 |
| ccctgacttt  | ccaggtgact | attttttctt  | cattttgtgc  | accacgctaa  | gcatggaact  | 23280 |
| tcctggggcca | catctgtgac | gtgtgtttat  | tgtagaattc  | cagaggagcc  | accattattc  | 23340 |
| agatttttcag | cactagatgc | ctgtttaaac  | cgtgcaacat  | ttgtcatttt  | tggagttaca  | 23400 |
| gtcctacgtt  | tgcaaagccc | agtttggaag  | gtttcaaaat  | gttccctcct  | ttgctatttt  | 23460 |
| gttctagtct  | cttaaaagtc | ctgtgagaat  | gttgatgcaa  | atataaataa  | agtaaggggc  | 23520 |
| agaaagggtta | agggatgtat | ttttagatgc  | tatggttagt  | ttgtggcgga  | gttaggggtca | 23580 |
| gaacatagct  | tgcaaattta | agagaaattt  | aactttggtc  | catggcctcg  | aaggtactct  | 23640 |
| ttctgaaggt  | tcaaagactg | gttcacattg  | tgtaatcac   | ttaatgggtg  | tctgcctgca  | 23700 |
| caccacgaa   | acagggataa | taaaaattgc  | cctgtatggg  | tacatgtttt  | tgcccgttac  | 23760 |
| tttttttttt  | tttttttgag | acagagtctc  | actctattgc  | ccatgctgga  | gtgcagtggg  | 23820 |
| gcaatctcag  | ctcactgcaa | ccttcgcctc  | ctgggttcaa  | gtgattctcc  | tccctcagcc  | 23880 |
| tcctgagtag  | ctgagattac | aggtgcctac  | caccatgccc  | agctaatttt  | tttttgtatt  | 23940 |
| ttagtagaaa  | tggggtttca | ccatgttggt  | caggctgggt  | ttgaacacct  | gaccttaggt  | 24000 |
| gatccgcccc  | cctcggcctc | ccaaagtgt   | gggattacag  | gcgtgagcca  | ccatgcccgg  | 24060 |
| ctgcccatta  | cttttaattg | gaaaagccac  | aattactttt  | gcaccaacct  | attataatga  | 24120 |
| aataatatag  | gtaaaagtgc | tttcataaca  | gaaaataatg  | tataaatgca  | aaatattact  | 24180 |
| attaattttt  | ttttaaattt | tagtatttga  | aatttggtgt  | taagaaactc  | ttttggctgg  | 24240 |
| gcacagtggc  | tcatgcctac | aatgccagca  | cgtaaagatt  | ttagaccttg  | tctccaaaaa  | 24300 |
| aaggattttt  | actgaggcag | gaggatcact  | tgcggcgagg  | agtttgaaac  | cagtgtggac  | 24360 |
| aacatagcga  | gaacctgtct | gtacaaaaaa  | atacaaaaat  | tagatgagt   | tgggtgtgta  | 24420 |
| tgctgtagt   | ctcagctact | tgggaggctg  | agacaggagg  | attgctgagc  | ccaggagtgt  | 24480 |
| gaggctaaaa  | taagttacga | tgcaccatt   | gctttccaca  | gtctgggtga  | cagaccccat  | 24540 |
| ctctaaaaaa  | taaataaacg | gtaacagaaa  | cttttttgat  | tacatgttat  | gateccacca  | 24600 |
| ttccagtttc  | tatgtttgat | tactttcttg  | aacaggagta  | ctgtatttat  | gaatttttct  | 24660 |
| tgtacttttt  | tcaagttggg | agtttatagt  | cagattctac  | tgtactcttt  | ctgttaaaat  | 24720 |
| agctatgtgt  | tgggccaggc | acgggtggctc | acgcctgtaa  | tcccaacact  | ttgggaggcc  | 24780 |
| gaggtgggcg  | gatcatgagg | tcaggagatc  | gagaccatcc  | tggccaacat  | ggtgaaaccc  | 24840 |
| catctctact  | aaaaatacaa | aaattagccg  | gtcatgggtg  | cgtgcgcctg  | tagtcccagc  | 24900 |
| tactcgggag  | gctgaggcac | aagaatctct  | tgaacctggg  | aggtggaggt  | tgcagtgagt  | 24960 |
| caagattgtg  | ccactgcact | ccagcctggg  | gacagagcaa  | gactctgtct  | ccaaaaaaaa  | 25020 |
| gaaaaagaaa  | aagaaaaaat | agctatgtgt  | cattggccag  | gatgactatt  | tgggctctgg  | 25080 |
| gtctgtgttc  | ttgtctctcg | tctagatata  | cacagagggc  | tccaggaggt  | cctacttcca  | 25140 |
| tcctgctatt  | ctacttttca | ttctgaaact  | caaacctgtt  | gccattccat  | tactgaaaaa  | 25200 |
| ccatcagtgg  | ctccctgttg | cccccgaggt  | ccatggcagg  | caaagccttt  | ctctgcagcc  | 25260 |
| acatctccac  | ctcctgttct | gtaccctact  | aagtacacac  | tcctccccaa  | accttttctc  | 25320 |
| cccagcctg   | acttatctga | ggteccactg  | gactgtttcc  | ctgctttcct  | ggccacacag  | 25380 |
| ttaatcactc  | ttctatctgt | gcccccaaag  | tgttttcatt  | aaggatgaga  | cctttttttc  | 25440 |
| tcatgagctc  | ctcaagggtg | gggactgtat  | cattttctgtc | tccttttttc  | tttctcagtt  | 25500 |
| cctgacattt  | agtgggaact | ccgtaaatac  | cgtctgaatg  | aacaaatata  | taaaatctga  | 25560 |
| ggctcttgaa  | gtaagtccat | cctcggatgg  | atgggttata  | cttgagagact | tgccttttgt  | 25620 |
| tctctgtgaa  | tgcatgctca | gctgagatct  | gctgggtgac  | gtgtttctat  | agcttccctta | 25680 |
| gcagtgggtg  | gaagcccagc | agcttaagat  | gttagcttct  | gatgcagggt  | ttactaacctc | 25740 |
| tccacgtact  | ctgtccctga | gtttctgttt  | attgtttgcc  | tgtgattctc  | tttgggtgcca | 25800 |
| tcccacacgg  | tgttgtcaca | accaaccctt  | tgttttaatt  | gaacgtcctg  | cgctactcct  | 25860 |

|             |             |             |             |             |             |       |
|-------------|-------------|-------------|-------------|-------------|-------------|-------|
| gctctaactc  | tgactagctt  | tttgtttttg  | tgtgggtccag | gctcgactgt  | gacttcttcc  | 25920 |
| agagagaagc  | tagaacagct  | tgataaattt  | ggaaagggtca | ttcttagata  | agacttgagg  | 25980 |
| tttatctgaa  | gggtgttatt  | atttgttgta  | attctcagaa  | cagctaacac  | tccatgaacc  | 26040 |
| ctcactaggt  | gccacgaaac  | acgttaaagt  | aagtacatga  | gatgggtgtt  | ctaaacaacc  | 26100 |
| actatgggtg  | tggtatcatt  | attataattt  | tatgggtata  | attattccta  | tttcacagtg  | 26160 |
| gaggaaatgt  | ttcttagtaa  | ggtgcacatg  | tgaacgtcta  | gccttgggtt  | tcaaagtcctg | 26220 |
| gtatgtttga  | ctccagagcc  | ctaactctta  | gttctgactg  | tatcctacat  | tcttatcctt  | 26280 |
| tgctgagagt  | gaaacttaga  | attgggtatc  | actctgtttt  | ttacaactga  | gtttactctg  | 26340 |
| tctgtgaagg  | ccgcagcgta  | aagccagttg  | tgaatcatgc  | acatcagctc  | cttctgaaat  | 26400 |
| gtgtttatgg  | cctaggacac  | agggaccctg  | gagactatgg  | tgctgcagtg  | cattatggct  | 26460 |
| gctacccttc  | tagtctgtcc  | tgctgctcgt  | tctgccacct  | gccagctgtt  | gctacctgaa  | 26520 |
| ccttctcctt  | gcagcagttc  | tcagtgttct  | ctttgcttgg  | gaattgcctg  | gggagctaaa  | 26580 |
| aaaaaaaaaa  | aaaaagccaa  | gccccacctc  | cagaggttct  | aattcatttg  | ttttaggttg  | 26640 |
| gggtccaggc  | atcagtatta  | ttatttttga  | caaccttatg  | aggggtgtgt  | gtgtatttgt  | 26700 |
| gtttttgtgg  | gggacatggg  | ctcactctgt  | tgcccaggct  | ggagtgcagt  | ggtgtgatct  | 26760 |
| tggtcactg   | cagtctccac  | ttcccaggct  | caaatgacct  | tcctacctaa  | gcttcctaag  | 26820 |
| tagctggagt  | acaagtgtct  | accaccatgc  | ccagctaat   | gttttaattt  | tttttttttt  | 26880 |
| tgagacaaga  | tcttgctttg  | atgccagac   | tggagtgcag  | tggcacgatc  | gtggctcact  | 26940 |
| gaagtcttga  | cctcctgggc  | tcaaacaatc  | ctccaccttc  | aaccttctga  | gtagctggga  | 27000 |
| ctacaggtgt  | gcaccacat   | gcctggctaa  | gttttttatt  | ttttgtatag  | atggaggtgt  | 27060 |
| ccctgtcttg  | cccaggctgg  | tcttgaactc  | ctggactcag  | gtgattctcc  | cactttggcc  | 27120 |
| ttccagagtg  | ccgggattac  | agggcatgagc | cactgtgccc  | aacctatgag  | atatatttta  | 27180 |
| tagatcataa  | aattttacca  | ttttccctt   | ttatctttag  | ttggctgcaa  | tgttgtaca   | 27240 |
| tatttatggg  | atatagagtg  | atattctgat  | atgtttacaa  | tgtgtaatga  | tcaaatcagc  | 27300 |
| ataattatcg  | tatccatcac  | cttgaacgtt  | tgtgcctgta  | ttgtgaacat  | tcaaaatcct  | 27360 |
| cttctagatt  | tttgaaaata  | cacactaagt  | tattgttagt  | catattcacc  | ctacagtgt   | 27420 |
| atagaatact  | agaacttatt  | cctcccatct  | agctataatt  | atttatccct  | atccattaac  | 27480 |
| ctctccctat  | ctctcctcca  | ccctatgctt  | cccagcctct  | aataaccaca  | attctactct  | 27540 |
| ctacttttat  | gacgttattt  | tttttggtct  | ccacatatga  | atgagaacat  | gtggatatata | 27600 |
| tctttctgtg  | tctgacatat  | ttcaaaaaat  | gtctcatttt  | aagtgtagaa  | ctcaatgatt  | 27660 |
| tgtagtaaat  | ttacagagtt  | gtgtaaccat  | caccacaacc  | caattgtaga  | acatttttgt  | 27720 |
| cacccccaaat | gagagccttc  | atacttcttt  | acagttaatc  | cccattcccc  | ccacccccaa  | 27780 |
| agccaaccac  | tcactacttt  | tctgcctcta  | tagattcccc  | ttttctggcc  | atttcataa   | 27840 |
| agtggeatca  | cctgtattat  | tttcagagcc  | tccaggactg  | tcagtgttag  | ctctgggtta  | 27900 |
| gaaccactgt  | tacctcctag  | atcttttttc  | actagttttt  | atttttacta  | ttttctgag   | 27960 |
| tggtcagaa   | aactcaatag  | gcccctgcca  | gggctgtctc  | ttagataatc  | tgtgagctaa  | 28020 |
| atgagtcctt  | gtaagtgtga  | ctgagaactt  | aacatttaca  | acctgttttt  | atggggatga  | 28080 |
| gcttgtaaaa  | gtccaaatgt  | gctgacctag  | tttggagggt  | agcctgcaca  | acctgtcttc  | 28140 |
| agacgtgtgt  | cacctcccca  | gcagccatca  | gtcacagcac  | tgagtcagag  | cccagggtgtg | 28200 |
| gagggagccc  | ctgacattgt  | gtggcctggc  | cttgggcact  | tttgcttttag | actttttgtg  | 28260 |
| tggtctttca  | gctcctccta  | gcctctgggt  | gcctcaccag  | agcagtaaac  | tggactcctc  | 28320 |
| ctgagctcct  | ttcccttagg  | cagtagctct  | atgtggatgt  | actgtctgca  | ttgcaatatt  | 28380 |
| ttgcaaaaata | tttctcacat  | atttttgcct  | gcttaaataga | gttttaaaat  | ctcaaactca  | 28440 |
| gctgcctcca  | ggtccaagca  | ggtaccatga  | gtgactggag  | caggctgggg  | aataaggcac  | 28500 |
| ttggaatgcc  | tgagaggccg  | ttgaggtggt  | tggtggcaga  | agggagattt  | ctttcagatt  | 28560 |
| ttgctataag  | caagaatcgg  | tggtggagct  | ttgagacagg  | ccacgtgggt  | agagcaggga  | 28620 |
| tagcaaatag  | attccatttc  | atgtgccaga  | ggggaaaaag  | ccaactgacc  | gaacaaaacg  | 28680 |
| ctgcgtgggt  | aagcttacat  | gtgcaggaaa  | acgataaacc  | tcaattcaat  | ttagggtaaa  | 28740 |
| atgtaactgt  | tcactcttagt | cactggaatt  | caaataatat  | tatcaagatt  | aagttaagat  | 28800 |
| tgagaaggct  | tttattgtca  | tttaaagtaa  | aaattaaatg  | ttataaccct  | gtcctagaga  | 28860 |
| agctgtaaat  | acatgggcaa  | aataccatca  | tttggggaaa  | taatgcagag  | tatagaacta  | 28920 |
| ttagatctat  | ttttccacag  | tcattgccaa  | aatattttct  | gttgaatcat  | ttcccccgct  | 28980 |
| taagtatcct  | ttttcttttc  | agtgttaggc  | atgggaacaa  | ttttttccca  | ataacatccc  | 29040 |
| tttagagttc  | tgtaaaactct | cttacggctt  | ttaaactgct  | ttgtggcagg  | tataacaaat  | 29100 |
| tgcttcattt  | ttaaagtttc  | agagagtcgt  | ttatttttaa  | aatccaatta  | agtagatttt  | 29160 |
| agattccttc  | ccagaaatct  | aagacgcag   | ctaataat    | gagataaaac  | agtaaaaact  | 29220 |
| cattcagtag  | tcctccagct  | cactatgaaa  | tcaaactatt  | gcatccaaac  | tgggctcaga  | 29280 |

|             |             |             |             |             |             |       |
|-------------|-------------|-------------|-------------|-------------|-------------|-------|
| ggctcaggtg  | gattttgtaa  | acacttgtaa  | cgggaggtga  | cagtgttgca  | caaaatcaga  | 29340 |
| ttcccagcag  | aatgaaatcc  | actgcctagc  | cctgggtggg  | ctctgtaatt  | tcactgtgaa  | 29400 |
| tacaaatcat  | gttgcattga  | gtaattgtta  | tgttgttacc  | ctacatacaa  | tattcagatc  | 29460 |
| cttggttagat | tagtcacagt  | ctgtcttatt  | tctcaaaaat  | gcgtcagata  | tttcctggta  | 29520 |
| actagcattg  | aaaatgagct  | cattaaaaat  | tctctccatg  | cttcattttt  | tcattttta   | 29580 |
| tgacgtatca  | gtcagtgtgc  | aagtgtaaaa  | gccagcagaa  | cagtgtatctc | tcagtgtgaa  | 29640 |
| ttgtaaacca  | aaaaccaaca  | gccctgtgag  | cccagaggca  | gtgggagcca  | ttgatgtttg  | 29700 |
| atgctagtgt  | tggcgccctg  | gccacatatt  | tgccatcctt  | gggttggggg  | tgctcttggg  | 29760 |
| ggtagaaaaga | tgagccctg   | ctctcaaggc  | cccagaatgg  | ctgaaaggat  | tgaaaaggag  | 29820 |
| caatttgga   | aaagtcttga  | aaagccagcg  | tctctcaacc  | tctgaaatgc  | aagttgggaa  | 29880 |
| aacgtagaaa  | tcccccttct  | gagtaagaag  | aatttggatt  | tgggaagtga  | ttaaaaagga  | 29940 |
| ttgaagtttc  | atgggaaaa   | ggacttcact  | tgtacataga  | tcaggggtca  | gcaaaactctg | 30000 |
| gtctgtgggc  | taaatgcggc  | tgctgcaggc  | tcagaatggg  | tttggcattt  | ttaaatactt  | 30060 |
| gaaaacatta  | aaagaggaac  | agtagttcat  | gacgtacgat  | aattaggcaa  | aattcacatt  | 30120 |
| tcagtgtcca  | taaataaagg  | tttattgggg  | cacagccagg  | tccgttcatt  | tatacaatgt  | 30180 |
| ctgtggcagc  | ttttgtgctg  | cagtggcaag  | ctgagtcatt  | acatagagac  | agtatggtct  | 30240 |
| gcaagcctga  | aatgtttatt  | gttgcgtgaac | tcttgggtag  | agaactgtgt  | ttatttaggt  | 30300 |
| cttgtcccg   | aatatgttta  | tcagtagaga  | ccagaaagca  | aacagtgatt  | aaaatacttc  | 30360 |
| agtgtttttg  | aggaggtgag  | tggatggagg  | tgcgtagggtg | caggaggagc  | ataacttctg  | 30420 |
| atctcttct   | gtcaccagtg  | tcaccagcac  | tgggctgtgc  | ctccgcattt  | ggactgaatt  | 30480 |
| atcagaggca  | gccaccctg   | ttcatttttg  | cagctgctgc  | ttgcctatga  | ggcagaatgt  | 30540 |
| cgaggaagag  | aaaatacacc  | tccagcccag  | cctcaccat   | cctcaaagt   | attctaaaaa  | 30600 |
| gttagctatc  | aaggtttgca  | ccacatcctg  | caagagttac  | taatagagac  | ctgggggttg  | 30660 |
| ccagcatttt  | ctgtaaatgg  | ctggataaca  | aatattttga  | gctctgcagg  | tcatacgggtg | 30720 |
| atgtctttcg  | caacaactca  | gttctgctgt  | tgaagctcaa  | aagcagccat  | agatagcaca  | 30780 |
| caaatgcatg  | agcctggctg  | tgttccagtg  | aaacttctgt  | aatacactga  | aatgtgaatt  | 30840 |
| tcataaaatt  | ttcatgtgtt  | accaaattatt | attattttgt  | ttttttccaa  | tcattttaaa  | 30900 |
| ataaccattc  | ttctgagctt  | tctgaacata  | aaaaatgggc  | ggtgagctag  | attgagcctg  | 30960 |
| cgggtatagt  | ttgctgacc   | ctggtttaga  | taaactaagt  | gtaggccttg  | ctagtaggc   | 31020 |
| cctctgggtt  | tgaattccac  | aatcccactt  | attagtctg   | gggtcctagg  | caagttacct  | 31080 |
| ttcaagacct  | cactttcctt  | ataggtaaaa  | tgggggaaat  | agtgggtcct  | acccaatagg  | 31140 |
| gttgatgtga  | gaattagagt  | agatgtaagt  | gccagcccag  | tgtctggggc  | atagaaagca  | 31200 |
| cccagcaaat  | atggctgcta  | ctgttggcta  | ttatgaaggc  | tcaagtagat  | ccctacagcc  | 31260 |
| ttggaggaac  | cgtttgtgat  | gtggagggtt  | gacggctctt  | aactgtcttc  | agtccacagt  | 31320 |
| tcaattagat  | tgaatatgag  | gctggagggt  | ttggtgggtg  | tgccttgctt  | tcgtgcagtt  | 31380 |
| aagtagaaca  | tggatatatc  | acagaatagg  | ttaatgtaca  | ggcataaaaa  | gggagggtgg  | 31440 |
| ggagttgtac  | atctgtattc  | tgacgtgtaa  | aaatgcccct  | cgtgtctcta  | tctacctgtg  | 31500 |
| tgcattctgt  | tgtgtgtgta  | tgggtgtgca  | tgtatgtgtg  | tgtacgtatg  | tgtgtgtatg  | 31560 |
| tgtgtccttt  | gaaatcagca  | cttctcagcc  | ttggcactgt  | tgacattttg  | acctgaagta  | 31620 |
| ggcagaataa  | tgtctgccc   | tcccgaataa  | tgtccagatc  | cccatctcca  | gaatctctga  | 31680 |
| atgtcttaga  | ttacatggca  | gagggggact  | aagtttggag  | atgggattaa  | aattttctaat | 31740 |
| cagtggaaaag | ggagattagc  | ctggactagc  | caggtggggc  | cagtgtaatc  | acagagggtcc | 31800 |
| ttagcagtgg  | aagaggggag  | tcgcagagtc  | agagggaag   | gtgactgtgg  | cagagaggcc  | 31860 |
| cagagtgaac  | catactggct  | ttgacagtgc  | aggaggaggc  | caagggaatgc | ggtagactca  | 31920 |
| agaagctgga  | aagggcgagg  | aagcagatgc  | tccccttgca  | tgtccaggaa  | ggcattcagc  | 31980 |
| cctgctgcca  | ccttgatcgt  | agtccaggga  | gacctgggtg  | gaagtgtctga | actcaagaag  | 32040 |
| tgtgatataa  | tatacttgtg  | ttgttcaagc  | cactgagttt  | gtgggtgattt | gttacagcag  | 32100 |
| caataggaaa  | caaataccagg | gctggatcat  | tccctgttca  | taattcttta  | tattatttag  | 32160 |
| tgtgtgtgtg  | tgtgtgtggg  | gttgcattta  | ggatagtcag  | tagcatcctg  | gcctctagcc  | 32220 |
| tacagagacc  | agtagcatct  | cccatcatga  | caaccacaaa  | tgtccccaga  | cattgccaaa  | 32280 |
| tgtcctctgg  | ggacacagtt  | gcctccagtt  | gagaagcact  | agtttaaat   | tagaaaaaca  | 32340 |
| attgggaagg  | atatataaca  | aattcgtaac  | agtacccttt  | gggatatggg  | attggaggaa  | 32400 |
| tggctttcac  | tcctctttta  | acataaaaatt | tttaaaaactg | gattttgcct  | ccccctacag  | 32460 |
| acattttttt  | tttattttca  | actgtgggtt  | tttttcccat  | tttataaaaa  | gattaacctt  | 32520 |
| gaaaggtaat  | atcacatttc  | aatttttagtc | attatggatt  | ttactgtgga  | aggcagttct  | 32580 |
| atacacctat  | ggctgctttt  | caacctagtt  | ttattggatt  | ttgtttgaca  | ttgtgaatgt  | 32640 |
| cctttttccc  | aaagatgtga  | tagacatcca  | ttcattcatt  | cagtgtgtat  | ttcttttttt  | 32700 |

|             |            |            |            |            |             |       |
|-------------|------------|------------|------------|------------|-------------|-------|
| tttttgagac  | ggagtcttgc | tctgtcgccc | aggctggagt | gcagtggcgc | aatttcaatc  | 32760 |
| tcagctcact  | gcaaactccg | cctcccggga | tcacaccatt | ctcctgcctc | agcctcccga  | 32820 |
| gtagctggga  | ctacaggtgc | ctgccactgc | ctggctaatt | ttttttttgt | atttttagta  | 32880 |
| gagacgggg   | ttcacctggg | tctcgatctc | ctgacctcgt | gatccgcctg | ccttggcttc  | 32940 |
| ccaaactgct  | gggattacag | gcgtgagcca | ctgcgcccgg | cctcagtatg | tatttaagtg  | 33000 |
| gcaggaaggt  | gctgagcttg | ccgctgggga | ggagtgatga | ctttagagct | ctctctctgc  | 33060 |
| cctcatggaa  | cctgctgtct | agcagggagg | aggacggtag | tgctcattgt | ttggaagacc  | 33120 |
| acagcctgca  | ttgatcgcgg | ggacttgagc | attcgtgtcc | atggtttggg | agtcctctggc | 33180 |
| tcccatagta  | catgttttat | gaaggaaact | accagaaatc | catgattaga | gatggaaaat  | 33240 |
| atcagaccaa  | ttggaaat   | tcctttgact | ctcacctggg | ctgagcatct | tctgtctttt  | 33300 |
| tggtacagt   | aactactcca | gattgaaaac | atttctgttt | tctccttgcc | tggcaagtga  | 33360 |
| gctcagtga   | acatcctatt | agccacactg | cagggttggg | cattgccaca | ccaggtcaag  | 33420 |
| ggaaagtggc  | actatgaagg | cctgggcagc | actgctgctt | tgagaattac | gaggagaaaa  | 33480 |
| tctgtgcttt  | acaaaaagt  | aaattaaaga | tctgctgg   | tatcagcctt | gcttgagtga  | 33540 |
| ctagtaaaat  | tgcagaatag | cttcatagga | aaaaacaaac | cccagagtaa | aatggcgagt  | 33600 |
| gggaagtcc   | ttcctgattc | gtattgtttt | tccagttgca | gacaggaaac | attcaagtgt  | 33660 |
| gttttcaagc  | ccagaacgtt | ggacacaaag | aaggctctga | caaagcagaa | aaaaccata   | 33720 |
| tacaaaaagt  | ttaggaacat | ggagcaaaat | gtctgattca | aaacaatcta | ggctgggcgc  | 33780 |
| agtggctcac  | gcctagcact | ttgggagttg | gaggcgggag | gatggcttga | gctcaggagt  | 33840 |
| ttgagaccag  | cctgggcaat | gtagtgaaga | tccatctcta | taaaaaaat  | tttaaaaatt  | 33900 |
| acctgggcat  | gatggtgcgc | atctctcgtc | ccagctactt | ggaaggctga | ggtgggagga  | 33960 |
| tagcttgaac  | ctaggagttc | aaggctgctg | tgagctgtga | tcaggccact | gcactcagca  | 34020 |
| tgggaggtag  | agcaaacct  | tgtcttaaaa | aaaaaaaaat | ctggccgcgt | acggtggctc  | 34080 |
| atgcctataa  | tcccagcact | ctgggagacc | aaggcagcca | gatcgcttga | gctcaggaat  | 34140 |
| ttgagaccag  | cctggccaac | atggtgaaac | cctgtctcta | ctaaaaatag | aaaaattagc  | 34200 |
| tgagcgtggt  | ggtgtatgcc | tgtagtctca | gctacctggg | aggctgaggt | gggagtatca  | 34260 |
| cttagaccca  | agaagcagag | attgcagtga | tctgagattg | tggcactgca | ctccagcctg  | 34320 |
| ggtgacagaa  | cgagaccctg | tctcaaaaaa | aaaaaaaaaa | aaaaaaaaaa | tatataaaaa  | 34380 |
| aaaaaatata  | tatatatata | tatgatttat | caagtattat | tttttatgat | tggatcactt  | 34440 |
| tgtctactgt  | tttttttttg | tctatagatg | tcttgacgaa | ttcagtctct | tgccccctgc  | 34500 |
| cttgctttta  | taaattacaa | aaactcaacc | aaagataaca | cttctcagaa | aaaaccagca  | 34560 |
| catttctgtg  | gcctacgtac | atggcctatt | gaatggccta | ttgaatgggc | accttggccg  | 34620 |
| atagtggaa   | aattgctgga | ctttccatat | ctctggtaaa | ggtgaacact | gcaaaacagt  | 34680 |
| tcacgatagg  | aagcaccaag | gcttggacca | gtcacagtga | tgaggagat  | caggtcattt  | 34740 |
| ggaccacatt  | attggaatag | atggagacag | taccaaggcc | tgaaaattaa | gatggagagt  | 34800 |
| ccacaggcca  | gcaaagaatc | tttgtgtgag | ggagccattc | cagtttgtgt | attatactcc  | 34860 |
| atagtcatga  | tttgtcactt | aaaagtaatt | cttcccaatt | atagatcact | tttaatctct  | 34920 |
| agttgggttt  | ggattttttt | ctacacattt | tttttttgtt | tttttgagac | agagtcttgc  | 34980 |
| tctgttgctt  | agtctggagt | gcagtggcac | gatcttggct | cactgcaacc | tccgcctccc  | 35040 |
| aggttcaagc  | aattctcgtg | cctcaacctc | ccaggtagct | gggactacag | gtgtgtggca  | 35100 |
| ccacatctgg  | ctaatttttg | tatttttagt | agagatgagg | ttttgccatg | ttgaccaggc  | 35160 |
| tggctcttgaa | cttctgacct | caagtgatcc | accaccttg  | gcttcccaaa | gtgctgggat  | 35220 |
| tataggcgtg  | agccaccacc | cccaacctct | aaaattgatt | taaaaaaaa  | aaatctaagc  | 35280 |
| ctgcaaactc  | aaaattgatt | ttattaatgt | aatatatata | tagcctccac | aaacacagga  | 35340 |
| aacaaagggg  | aaatttcttt | ttaaacagta | cattaacatt | ttcatataat | atattcaata  | 35400 |
| tagttttcag  | cctccagacc | ttttcatgta | aagtacctct | aaagcagagg | gtccagttaa  | 35460 |
| tttgaaaaaa  | atggctggaa | atacactgat | tttctttaca | ttttagatac | tctgaggtat  | 35520 |
| gttttctgtt  | gtgcatttgt | agagcttgac | attggacca  | ttctttaagt | taggcacact  | 35580 |
| tcacccttgg  | ccatatcaat | caagcatgct | acttaaaagt | gtaagtaaca | tgctattttt  | 35640 |
| aaaaaacctc  | aaaactgtga | ttcatgtagt | ttaaaaagtc | aaataatata | gtaaaagact  | 35700 |
| taccacaaaa  | tacgggtggg | tactcccta  | ctctctgaga | tttcccaact | ccagaagcaa  | 35760 |
| ctactttgaa  | atattaacag | tttattgtga | catttattca | tattcataat | tataagtaat  | 35820 |
| atgtgtaaac  | tatcgtttgg | gttatcaaat | tagttactgt | ctgttgactt | tctgttctga  | 35880 |
| taaatgaggg  | tttagggccc | tttccctctg | cttctgctcc | ccccatcctt | tcaatacagt  | 35940 |
| tataattttt  | cattgtatta | ctatttgata | tttatattat | gtccaatcaa | ttatttgcag  | 36000 |
| ctgagcatac  | tagttactat | gactatcttt | atgtttccag | tggacttttt | gtttttcctg  | 36060 |
| aagttaatac  | ttgcctcggt | tttatgtttg | ctttattttc | tttgtggctg | ttgcagcact  | 36120 |

|             |             |             |             |             |             |       |
|-------------|-------------|-------------|-------------|-------------|-------------|-------|
| gtgctcataa  | ctgtttaaca  | actgccaagc  | tcctatttga  | attgtttgca  | gttgtttatg  | 36180 |
| tttttgattt  | caagtaccag  | tgtgaggtta  | ctgagcaagg  | agttgggaga  | agatgcacat  | 36240 |
| ggttggttgg  | tctgagttgg  | ctctagcata  | cctctgagct  | attactaact  | ttcccacatc  | 36300 |
| tgcttatagc  | ccacattggg  | attgtagagc  | aagttcttct  | cttcttctgt  | tatttttttaa | 36360 |
| aaaataattt  | gctctgaaaa  | aggacatatt  | tgttctgatt  | ctcaggttga  | atctcttttt  | 36420 |
| ttgaacttgt  | gaaaatttta  | ataggccttg  | agacttctct  | gtgtatactc  | gtacttacag  | 36480 |
| aaggaagtca  | tttttagagtt | gaggtggatt  | ctgtgagagg  | tatacagggc  | cctgtccaga  | 36540 |
| tttgggggtt  | ttggctaggg  | aagaaaggca  | aaagttaccc  | attccctggg  | ggcattttgc  | 36600 |
| taaaggaggg  | atgaggcatt  | ggcgagagga  | atgggggctg  | ctaattggtga | aactatgacg  | 36660 |
| atctcatgcc  | agggtgtgtc  | ttgctagggt  | gactgtcagg  | tttctttttg  | agtctggttc  | 36720 |
| tttgacctca  | tggtcagctg  | gggccctgct  | tcccttcctt  | aactggtatg  | actacctgtg  | 36780 |
| tttggtctctt | cagcaatgcc  | tggcaccttg  | cttgccaagc  | aaggtctagg  | gtagcatatg  | 36840 |
| ttggcctggt  | gctggtggaa  | ccttttcata  | gagttgaaaa  | ttggctgcct  | ctggaagctg  | 36900 |
| gggccttggc  | tttgtctcta  | ggccctgatc  | ctctggccct  | gggaagtatt  | tgagtccagg  | 36960 |
| cagcattcca  | gtttcctgca  | gaaactggtg  | agtgaagccac | cctgtaggca  | tctccagggt  | 37020 |
| gactgggaca  | gtgccatgat  | gacaagtgtt  | agaatcccc   | atggcaatgc  | cctgttcttg  | 37080 |
| ctaactgtcc  | attgccttaa  | gtgtagactg  | gaggagctgt  | gcgcttcttt  | cccttgccca  | 37140 |
| cagttggcac  | tactctgagc  | ttagcagcat  | ttcgaggtea  | ttctaggggt  | ctcattttact | 37200 |
| ttctggccca  | agagcttttc  | ctgctcttgc  | attggttccc  | ggccaagatc  | atacaatccc  | 37260 |
| tgttctgaat  | ttccggttca  | ttgacagcct  | tcccttgact  | cccttctactg | ttcagagctg  | 37320 |
| aaacatactt  | tttctttctc  | ttttaaaaa   | ttccttcacg  | ccaggcgctg  | tggctcacgc  | 37380 |
| atgtaatccc  | agcacttttg  | gaggccaagg  | tgggcggatt  | acttgaggtc  | aggagtctcg  | 37440 |
| gaccagcctg  | gccaacatgg  | caaaaccctg  | tctcttctaa  | aaatacaaaa  | attagctggg  | 37500 |
| cgaagtggca  | cgtgcctata  | attccagcta  | ctcgggaggc  | taaggcacga  | gaatcgcttg  | 37560 |
| aatccgggag  | gtggagggtg  | cagtgaagctg | agatcacacc  | actgcagtc   | agtctgggca  | 37620 |
| acagaatgag  | actctgtctc  | aaataataat  | aataataata  | ataaaaataa  | aattattatg  | 37680 |
| gtctgacagt  | tgagactccg  | ccagctcgga  | atgccccctt  | ctgattgctg  | gccaccgtgt  | 37740 |
| tggtttaattg | gaagggttga  | tgaattagtg  | agtagtccaa  | agcatagcag  | agaaagtgtg  | 37800 |
| ggaaacaactt | agtttctttt  | caaagtaagg  | atggagagga  | aatttgagg   | aggaactaat  | 37860 |
| tgttatttgt  | tgtgtgtgtc  | taggcttgca  | tctttgcata  | acgtttctgg  | ttgtgaactg  | 37920 |
| aagttttaagc | ttctgtagaa  | cagtgttttc  | tcaaagccat  | gtctctagac  | ctcctgcaat  | 37980 |
| ggaattctga  | gcaaggagt   | gctgttaaaa  | atgcagggtc  | tattgaatta  | gaatagaata  | 38040 |
| tccagagggg  | cctgggaat   | ggcattttat  | atcagcacct  | gctgcccttg  | gtgattctgt  | 38100 |
| gctgtctcaa  | atttgagaac  | cactactcag  | gatcatttgt  | tcttgttttg  | ggctgctatt  | 38160 |
| ccccacaaag  | ttttgcttag  | ttatttttct  | ttggttttgc  | ttaaattgct  | ctctgatgta  | 38220 |
| aaaatttgta  | aactgcccct  | gccaaccctt  | ctaaatttat  | ttctgcctgt  | tttgctttaa  | 38280 |
| actccaggct  | aataattatt  | aaatttttag  | agttgccttt  | catttttgga  | tttctaactc  | 38340 |
| tgaatttttta | atttttccca  | cagagctgag  | aaaacagaag  | tccttagtga  | agatctatta  | 38400 |
| caggtaacaa  | aatatagtct  | cctttaaatg  | atctgtttta  | aggatggaaa  | aaaattccta  | 38460 |
| tgtgagaatt  | gaggcctgtg  | ggcttttttt  | tttttttttt  | ttaaccagaa  | acagaataaa  | 38520 |
| attaattagt  | gtgattttga  | gcaggaaaga  | aaacagtttt  | gttgcatgat  | gatgaaaagg  | 38580 |
| ggatctgaaa  | cccagctacc  | tgggttcgaa  | tctcacgtct  | gcgctgggta  | gctttgtggc  | 38640 |
| ctcagggtt   | tactgaactt  | ccctgcgcct  | cagtttccac  | ttctctaaac  | tgagggaag   | 38700 |
| gccttatcca  | cctcacaggt  | tgttaggagg  | gtttaatgag  | ttaagcagga  | acagcactgg  | 38760 |
| gaacggagcc  | tggcacgtgg  | taagtgtctg  | atattagtga  | tctattatta  | ttactgccac  | 38820 |
| tgcaagccac  | agagactgtc  | tgtttctgac  | gtgaaacatc  | ccttgatttg  | ccctgtgttc  | 38880 |
| ttctgcccctt | tttctcagtc  | ctgttagagc  | agttgtgtgg  | catttcccca  | gggggctgtg  | 38940 |
| catcccagcg  | gggcagaacc  | agcattttatt | tgctgttgat  | tcttgaatac  | cttgcacagg  | 39000 |
| aactcagtag  | acatgggccc  | tctcaacgaa  | tattaaatga  | gcaccttctg  | tttctgtgaa  | 39060 |
| agataacgtc  | ccaggcactg  | ggagaaatca  | gtgaacaaaa  | cagatccagg  | cttctgtcct  | 39120 |
| tgtggagttt  | acattctagt  | ggaaattgga  | atcaaaaatta | aatcatggaa  | tttgttcatt  | 39180 |
| ttttgctttt  | ctctggtggc  | aaatgaatgt  | ggattagttt  | tctaattgtt  | gaaaatctgg  | 39240 |
| tcattgcaag  | atttggggaa  | ggtaatgtgg  | aatctgctcc  | taaatctccc  | attgcctgcc  | 39300 |
| agccctgagt  | cctggggcta  | tgggcttgga  | tctgaagaaa  | cgctgccctt  | ttgagaaaga  | 39360 |
| ggcacagacc  | atctcgatgc  | gtaaaatggt  | ttggggtcaa  | atgtattctg  | ttttgaattt  | 39420 |
| gttgattttat | ctttaaaata  | gaaagcatcc  | caaagggcct  | gctctcatte  | ttcatgagtc  | 39480 |
| atcagaatac  | acatttttgg  | cattccttcc  | tgtaaaaagc  | ggctctcttt  | gccataaaca  | 39540 |

|            |             |            |             |             |            |       |
|------------|-------------|------------|-------------|-------------|------------|-------|
| gccatattct | agcaatagta  | ttttgggaag | ctgcttatga  | tgcgtgggtc  | ccctaagtca | 39600 |
| gtgtttctta | ttgctgactg  | tccattctgc | tttagagggt  | tattttaaac  | acacacacac | 39660 |
| acaccccaaa | cccaataagg  | aataattttg | aaaacacaga  | tcttgacagt  | aaattgtgga | 39720 |
| acgtttatct | tgctgcttct  | gtctgatgta | cattgtgtgg  | aaggctcagt  | tgccatgaac | 39780 |
| tggagagagc | tctttggcat  | ctctggtttt | ttccagttgg  | cagtgggtct  | gggcccggat | 39840 |
| cattcatttt | catttctgcc  | tggccaacc  | tgggtgcttt  | ctgggtgctg  | agtgtgtaaa | 39900 |
| ctgactggcg | ccactcagt   | tgatagcaag | gtgtagccaa  | gatcatccct  | ttccctgca  | 39960 |
| tgtagattca | gccatgcttt  | tcctaccagc | atgcagacac  | cacaaaagaa  | agaggatgaa | 40020 |
| tttgttctct | tttgtctctg  | ccttgtcaga | ttgagagacg  | cctggacacg  | gtgcggtcaa | 40080 |
| tatgccacca | ttcccataag  | cgcttgggtg | catgtttcca  | gggccagcat  | ggcaccgatg | 40140 |
| ccgagaggag | acacgtgagt  | atcagatgtg | actcagacc   | acagttcctg  | cgtctctctg | 40200 |
| aggcttttca | acccctggat  | tggttgggtg | tcctaagtg   | catcagtgga  | tcagcctttg | 40260 |
| gtgacttcta | tcaccaagca  | cgctcatgac | acctgcgtga  | ccatagcatt  | cttttgtgtt | 40320 |
| taagacatcg | ctgggctgga  | agccctcctt | acacggaatc  | ttctccaggt  | gcttttaaaa | 40380 |
| gtcccacgat | catgtgtcat  | tgataagaga | atggctgtgt  | cggttatgca  | tcttttgcgt | 40440 |
| gcagaagcgc | gaaagcctgt  | cttaaattga | cattgaagta  | gaagtaatgt  | attggtttgc | 40500 |
| taactgaaaa | gtccagaggt  | tgggatggac | ttgaggtcag  | ggtttatcta  | acatttcagt | 40560 |
| aatgtaata  | aaaaccaggt  | ttctttcctt | ctctctcctg  | tgccctcagt  | gtctgctttg | 40620 |
| tccttagaca | ggcatcctca  | tgatggcaag | ttggctattg  | gcagcttcta  | tgggctgctt | 40680 |
| gttccttgag | tgtggccagt  | gggagtagag | agcctctctc  | ccagtagttc  | ccctccctc  | 40740 |
| ccctctcgcc | tctttttctt  | ttttcttttc | tttttgcctc  | ccttcccttt  | cccctttccc | 40800 |
| ctttcccttc | ccttctcttc  | tctttctttt | cttttctttc  | ctgacagggt  | ctcactccat | 40860 |
| gacccaggct | gtagtgtggt  | agtacagtca | cagctcactg  | cagcctcaaa  | ctcctgggct | 40920 |
| caagagatcc | tcctgcttca  | gtctcccaag | cagctgagac  | cacagtacac  | accaccatgc | 40980 |
| ctggctaatt | ttttaaattt  | ttttgtagag | atggggatct  | tgctttgtta  | cctaggctga | 41040 |
| tgtagaactc | ctggcctcaa  | gcagtcctcc | cacctgggcc  | ttccaaagt   | ctggaattac | 41100 |
| aggcatgagc | caccatactt  | ggccccagta | gtttttcttg  | atggagttag  | aaagctgctt | 41160 |
| tttccaagct | cttggcagat  | tgaaagcgcg | ttccattgca  | ttgatttgtg  | tggagttaca | 41220 |
| ttccccggtt | ttgactgttt  | ctgttccacc | ctagttaacca | tggatagggg  | gtgaggtggg | 41280 |
| gtgaggagat | gggatgtgcc  | gatttggttt | agttagtttg  | gcccagacct  | agagcatggg | 41340 |
| ctgtggctct | actcctagct  | catagacttt | atcaaggcca  | gggtagatcc  | ctgagaaaaa | 41400 |
| tcaggatact | agtatagaga  | ggaagaggga | tggactctag  | gagagccatc  | cgggtgtctt | 41460 |
| tccaaggctc | acttggtcag  | agcgttcagt | tcctaggtag  | agccagtgga  | gcacagcagc | 41520 |
| ctttgttcat | gagggagttc  | catccttgct | tttacaagtc  | cccagcttat  | gagcatgcgg | 41580 |
| taaaccttag | accccatgca  | acattgaagt | gacagtttct  | gtgacacaca  | gggaagctat | 41640 |
| gatttggtgt | attgtcacca  | ggtgtctcaa | aagtgagaac  | tattaatagt  | atgcagatga | 41700 |
| tctgtgttac | ccttttatgt  | ttcctacaga | cttttatggg  | gcaccctggc  | agcagggttt | 41760 |
| ttccactctt | gcacaacagt  | gaggattctg | caatcatgtc  | tgtcatagga  | atggaagttt | 41820 |
| gcatacacct | atgcttccac  | acttgctca  | aagctctgtc  | cctcggaacc  | agaccagcc  | 41880 |
| tactggttct | gcttctctgga | gctccttgct | cttctgttgc  | cttcttctgc  | tctgcttacc | 41940 |
| cttttcacat | tgtttcatta  | agttctctgc | ttctcttatt  | ctccaagtca  | tattctctgg | 42000 |
| gccacctcct | ctgttcttat  | ggcttctaac | tgatgtgttt  | atgccagtga  | cttctaagcc | 42060 |
| attttcaacc | aagcaaaaaa  | cttctctctc | tagatgtcta  | ttctagcatg  | catgatcagt | 42120 |
| tcttctctct | gtgttgactc  | tctgaattcc | atccaccctt  | ttatgcaggc  | tggaaactgg | 42180 |
| ggggctttct | tatatctctt  | gttatttttt | attttcaaga  | caggggtctca | ctctgttgct | 42240 |
| cgtgctggag | tgtagtggca  | cgatcccggc | ccattgcaac  | attaacctcc  | tgggctcaag | 42300 |
| ccatccttgc | acctcaacct  | ttaagtagct | gggactacag  | gcttgcgcca  | ccaagcctgg | 42360 |
| ctaattgttt | gtttgttttt  | ttcgtagtag | agatgagggt  | tcatctgttg  | cccaggtctg | 42420 |
| tcttgaactc | ctgggctcaa  | gcagttctcc | cgccttgggc  | tctcaaagt   | ttgggattac | 42480 |
| aggcatgagc | tactgtgctg  | ggcctcgctt | ttattttatc  | ctocaaaccc  | cataactgcc | 42540 |
| taattagaaa | gtcctttgat  | ttctctctgt | gaatatttta  | aattgtctcat | ctccattgca | 42600 |
| tctctaccac | cttggcctta  | atgcaagacc | tgactccctc  | tcacctggac  | tgttgtagtc | 42660 |
| acctcctgag | ctacatttcc  | tgtctgtaat | ttcctttcca  | gtctgtcttc  | aacctgatca | 42720 |
| ccagagtcaa | tttctgaaa   | cacaaatcaa | ccctattatc  | ctcctgccta  | aaaaaaaaaa | 42780 |
| tcttggctca | gtggttctta  | acagggacca | gaattacacc  | cctgggggca  | tatggaaatg | 42840 |
| tgtagagaca | gttcggtcat  | cacagggact | ggcaggcacc  | actggcattt  | ggagggtgaa | 42900 |
| ccgagatgct | aagcattttt  | tgtttgtttg | tttgtttttt  | gagatggaat  | cttgcgtgtg | 42960 |

|            |             |             |             |             |            |       |
|------------|-------------|-------------|-------------|-------------|------------|-------|
| cgcccaggct | ggagcgcagt  | ggttgatccc  | ggctcactgc  | atcctccacc  | acccggttca | 43020 |
| aacgattctc | ccacctcagc  | ctcccagagta | gctgggacta  | caggtgcacg  | ccaccaagcc | 43080 |
| tggctaattt | ttgtattttt  | agtagagaca  | ggatttcacc  | atggtgacca  | ggctggtttc | 43140 |
| caactcctga | cctcaagtga  | tcctccctcc  | tcggcctccc  | gaagtgetgg  | ggttataggc | 43200 |
| gtgagcctcc | gtgcctggcc  | aagatgctaa  | atgttttgta  | gtgcctgggtg | aaatagttcc | 43260 |
| acacaggaag | tatcttaatg  | ttagaagtgc  | ttcttctgag  | ggacactggc  | tggttcccat | 43320 |
| tgcttgggat | aaagtccaca  | ctcttttagat | gacttaagcc  | ctttctcagc  | tgattccatt | 43380 |
| tctccttate | agcttcattg  | tctcctgctg  | cttcccgttc  | acacctgtg   | ccagccacat | 43440 |
| aacactcacc | agtcccaaaa  | tatgtcactg  | tccttcacag  | ttctatctag  | ttcctgttgt | 43500 |
| cttccttgag | acgcagtcca  | agacatatat  | tcaatagaaa  | caaataattta | tcaaacacct | 43560 |
| actgtgtaca | agtgtcggag  | atataaaaatg | aatgaaatgt  | aagttttcat  | ggtctcatgg | 43620 |
| gggagataca | tacaaaatga  | tcattataaaa | acaagatgct  | caataaaaaca | tgcacagggg | 43680 |
| tttatggggg | gcccagaatg  | ggtaccagag  | gaagagggag  | gtagttaggt  | gaggcttcct | 43740 |
| ggaggagggt | gtgtctgccc  | tataaaggag  | ggaaattagt  | ggcagggtgt  | gggaatatcc | 43800 |
| caggcagctg | gggcaaagtg  | cttggccctc  | atttctgaaa  | cctaattgctt | tagctttcct | 43860 |
| tttccaacgt | caaacgaaag  | tgccaaagac  | agggctttga  | ggatgcctac  | actttgcact | 43920 |
| tgggaagagg | agttaccaca  | acaatggtga  | gagaagacta  | atatggagaa  | aattgcagca | 43980 |
| gtctccaggg | ctctagaaaa  | cacaggagga  | acctcccaaa  | ggcctcataa  | catgcttcct | 44040 |
| gcatgggaag | aggcaagaat  | agaagggaag  | agagagacat  | gaggcagggtg | acctttgcag | 44100 |
| cccagccacc | attgacatgg  | cagaactgtc  | gtgggtcaga  | taagatagat  | tattagatta | 44160 |
| gagaattatt | tctttttgtg  | cgattggcat  | gcattttaca  | aattaagtct  | ttagagcatt | 44220 |
| taaaattcat | ccctggccag  | gcatggtgct  | gcactcctgt  | aatctcagca  | ctttgggagg | 44280 |
| ccaaggtggg | tggattgctt  | gagctcagga  | gtcgatacca  | gcctgtgcaa  | catggcaaaa | 44340 |
| ccccggaagt | gggttgagct  | gagctgagat  | cgcgtcactg  | acctccagcc  | tgggcaacag | 44400 |
| agccagaccc | tgtcttaaaa  | aaaaaaaaaa  | attatccctg  | atgatagaaa  | gctgttcacc | 44460 |
| tctaggaagc | acgaagccct  | ccctgtggag  | gagttcagtg  | ttgatacttg  | attaatgagc | 44520 |
| ccatatgtta | agcagagttt  | ccttattttat | gtacatagga  | aacaagattg  | ttgtggcttt | 44580 |
| ggggtcaggt | tagggaaacc  | acaaaactat  | ttacagctgc  | catcttgagt  | gatgcttgct | 44640 |
| aaaatagagt | tttctattat  | tttttttcca  | tagactccta  | gagttccaga  | gttgcacaat | 44700 |
| atatttgtct | tgattattgc  | attgatcttt  | aatagggtatt | taacctcctt  | tagaaaggca | 44760 |
| gcataaccaa | aaggtaggaa  | ttatccccta  | ttattctcat  | gtcttccttg  | tccagaaatg | 44820 |
| gggcagctgg | gaatagtctc  | cttgtagtgc  | agatggagcc  | cattatttat  | ttatttgaaa | 44880 |
| ataattttgt | aggaagccga  | ggtgggagga  | ttgcttgaga  | ctaggagtgt  | gagaccagcc | 44940 |
| tgggcaacat | agttagacct  | tgtctctaca  | aaaaatttaa  | aaatcaataa  | tttggggaga | 45000 |
| ggggaaatga | gtaaatgcct  | ctgtttatatt | ttaaatttca  | gcttactgtt  | ttgaataggt | 45060 |
| tctacattta | cacggtcaaa  | attcagaata  | tacaaaagaa  | cttacagtga  | agtgcctcct | 45120 |
| agcccatttc | cccaggcacc  | cagttccctc  | ctccagagcc  | cctgctctta  | gtagtttggt | 45180 |
| gtatagcctt | gcagagatat  | tctgtccagt  | acaagccagt  | gcatatgtga  | ttgtatcaga | 45240 |
| tggagccctt | tggaggcaga  | agaggcaagt  | gacatgtcag  | gggtggaccc  | tgtgttttta | 45300 |
| acatgaatgc | cctttctgct  | gggcagggtga | aattacatgg  | gatgctgcag  | aattgaaagc | 45360 |
| atttttttgt | tagcagatta  | tgacgttata  | accagcccac  | ttgtaattgc  | caggcctctc | 45420 |
| ctgagataag | ccattggccc  | gtaggggaaga | cactgaacag  | aggcccgggc  | catcagcact | 45480 |
| caggtctgac | tttccctgct  | ctccctggga  | tgccctggcca | ggccacttga  | cctccttcgg | 45540 |
| ctttgggttc | cttgactgta  | tgattataac  | attagatcag  | gtgattctgt  | ggtcattgcc | 45600 |
| agctggaaaa | caaactctctg | ataggaaaaat | gagtggcctt  | gtatttaaaa  | atattacaaa | 45660 |
| aactggctct | ttagctagaa  | gttttttaggt | atttaataaa  | agctacattt  | tagaatgata | 45720 |
| gccaaattaa | gagccagttt  | agactgggtg  | cggtggctca  | tgccctgcaat | cccagaactt | 45780 |
| tgggaggctg | aggagggcag  | atcacttgag  | gtcaagagtt  | tgagacaagc  | ctggccaaca | 45840 |
| tggaacaaac | ctgtttctgc  | taaaagtaca  | gaaattagct  | gggtgtaagt  | ggtgcatgcc | 45900 |
| cataatcaca | gcaggggagg  | ctgaggcacg  | agaatcactt  | gaacctggca  | ggcggcggtt | 45960 |
| gcagttagcc | gagattgccc  | cactacactc  | tagcctaggt  | gatagagcaa  | gactctgcct | 46020 |
| caaaaaaaaa | aaaaaaaaagc | caatttaaga  | atgagtgttc  | tagcaaaagc  | ttttgaaatt | 46080 |
| gagcacttca | ttgcattttac | ctgtcaggat  | aaccatttag  | agagcaaggt  | ctatgtctct | 46140 |
| gtcatgtccc | cagtgccttg  | aacatagtgt  | gctttgattc  | attaataata  | atatgaacag | 46200 |
| gctgggcgtg | atggttcatg  | cctgtaatcc  | caacactttg  | ggaggctgag  | gcatgcagat | 46260 |
| cacttgaact | caggagtttg  | agattagcct  | ggtcaacata  | ccccatctct  | acaaaaataa | 46320 |
| caaaaattag | ctggacgtgg  | tgatgcaggc  | ctgtaatccc  | acctacttca  | gtggctaagg | 46380 |

|             |             |             |             |             |             |       |
|-------------|-------------|-------------|-------------|-------------|-------------|-------|
| caggagagtt  | gcttgaacct  | ggaaggtgga  | gactgcagtg  | agtcaagatc  | atgccactgc  | 46440 |
| attgcagcct  | gggtgacaga  | ctcagaccct  | gtcccaaaaa  | aacaaacaaa  | aataataata  | 46500 |
| agcagaacaa  | caacaacagc  | aataataata  | atagcagcta  | acattttactg | aataacttaca | 46560 |
| atgtgttagg  | tacttgatat  | gtttttcttta | gtcaacagat  | agcccccac   | tgaaacagag  | 46620 |
| atcatcatat  | aactaatatc  | tgtgagacca  | gaacctgaac  | ccagacaggc  | tgtctcctac  | 46680 |
| ctgtgtaatt  | tgcttgagg   | gagaaattaa  | tgaatgatga  | tctgaaaaag  | atcattgaga  | 46740 |
| atgggtatca  | aataatgaga  | aaaacacaca  | ctgtcttcta  | tcttccagaa  | aaaactgcct  | 46800 |
| ctgacagctc  | ttgctcaaaa  | tatgcaagaa  | gcacgcactc  | agctggaaga  | ctctctcctg  | 46860 |
| gggtaagagt  | tgctgccttc  | agagtgccaa  | gtgccatgta  | gattggtgga  | agtggctggg  | 46920 |
| ccaggtgggtg | tatgtaggac  | ctgtgagagg  | aactgtgagc  | gttgatggca  | tggctcatcc  | 46980 |
| gctaggagag  | cggctgagac  | tccttgggag  | aaagtgggg   | caaggccgcc  | aggttgctgg  | 47040 |
| agaatccttc  | ttttagtagg  | tgctcaggctg | gagttggatg  | gcagaaagg   | ccattaacaa  | 47100 |
| aaaagcaact  | gatagggtca  | atgcctattc  | ccctaattctt | ggacagaaag  | aatgtggtcc  | 47160 |
| cttctgtgtt  | ccaggtgttg  | gctcagattt  | agaaactctg  | accagaccct  | ttcagttctt  | 47220 |
| agtcacatcg  | tttacaggcg  | gtcaccaaaa  | cgtccatggg  | agttatctaa  | aaagagtgtg  | 47280 |
| ttttctgaat  | tacttggtat  | tttttttttt  | ttttacaatt  | gtcatgtatt  | ctttaaataa  | 47340 |
| tttatataag  | taagaacaaa  | gcagttttta  | ttgtaggagg  | gaaggataac  | ccttctgtct  | 47400 |
| gctcctgcag  | caaggctggg  | gttctctagc  | cctgtctgct  | ctctctggct  | gtgacatggg  | 47460 |
| ccctgcttcc  | cagcaggacg  | aggccttcag  | acttttctag  | ccatttctca  | gcgtctacag  | 47520 |
| ttatctcgct  | gtcctagaac  | agtttcctcc  | cattcgtcac  | cattccttcc  | tcctgtctgc  | 47580 |
| ttccatgttt  | gggggccctg  | ggaggagggt  | ggcctgtgcc  | cacctgccag  | catcctcctt  | 47640 |
| ccctccagcc  | tggaagtgtt  | tcctgtttgt  | gcttccacat  | gctatggcca  | tcctcatcac  | 47700 |
| accagagtga  | tactgcgtgc  | tagcatgggt  | ataagtgttt  | tccaagtaat  | agctcattta  | 47760 |
| atccttaaaa  | caacctagga  | ggtaggtcat  | atcagcactt  | agaaccatgt  | taacacacaa  | 47820 |
| catcactccc  | attttacaga  | cgaggatact  | gacagagagg  | gcagggaaat  | tgctgagac   | 47880 |
| cccacagtgg  | gagaagagca  | aagcctgtat  | tcagacttgg  | gcagcttggc  | accagagagc  | 47940 |
| atgttctctga | ctatgacacc  | atggccacct  | cacaccaggc  | aacgtgcatt  | tctggtgtca  | 48000 |
| aaaaaacccc  | atagagagct  | tgacgggggtg | gaggggaagg  | aaaggagaga  | gggaggagg   | 48060 |
| agggatagag  | actgtggagt  | tatatcactg  | cacgtgtact  | ttgtatgata  | tcagctgcat  | 48120 |
| gttcgcaagc  | aaactaaaag  | gaaacatgat  | atttatgtaa  | cagggccctt  | aagtgttagc  | 48180 |
| cagctagctc  | atctgcatag  | cagaaaggga  | gcctggccaa  | ggctggactc  | gcagacataa  | 48240 |
| gataacatgg  | aatgaactta  | atgtctaatt  | taaaagatct  | tcagagtatt  | ttgtgaacac  | 48300 |
| ttggctttca  | cctgacttga  | gaatttaatt  | cttgagtaat  | ttgttatttc  | actgttcaca  | 48360 |
| catctgtctg  | ccaccacac   | acacaaagt   | catccctgag  | acagtcattt  | ttatttttaa  | 48420 |
| gcacaaatct  | gtggactcat  | gttttaggca  | gtaccctaca  | tttataatat  | tttcaaggct  | 48480 |
| cgttaggtag  | caccctaattg | cgttcctgtt  | gtatggcaag  | cagcactgat  | ccacacgata  | 48540 |
| atccagtgcc  | tgatttaattg | agcacgtgct  | cgttgttggg  | ggcttctgtt  | ttaaaggaag  | 48600 |
| atgctggaga  | cgtgtggaga  | tgctgagaat  | cagctggctc  | tcgagctctc  | ccagcacgaa  | 48660 |
| gtctttgttg  | agaaggagat  | cgtggaccct  | ctgtacggca  | tagctgaggt  | gggtgcttca  | 48720 |
| ccgtgcagca  | cggagagacc  | gagagtgggtg | tgggtgggac  | agtgagtgtt  | aaaattttta  | 48780 |
| cagtagttgc  | tggttttaac  | atacacttct  | ttttggaaat  | aaggggagtc  | aattgaagg   | 48840 |
| acaaaatcct  | ttgccttaga  | gaaaaaacgt  | ttgtaaatac  | tttaaaatgg  | ttaacctaaa  | 48900 |
| agccctgaag  | tgcatcccat  | ttggtatgtt  | cttattttta  | ggtggagatt  | cccaacatcc  | 48960 |
| agaagcagag  | gaagcagctt  | gcaagattgg  | tggttagactg | ggattcagtc  | agagccaggt  | 49020 |
| aacagcttga  | gccagcaatg  | cagcattgtg  | tccatttccc  | accacggggg  | agaagaccac  | 49080 |
| tgacagtggg  | cacaatggaa  | gtgctcacca  | attcgtgcac  | ttgaccccca  | gactgggtgc  | 49140 |
| cagcctgcca  | gcacctccta  | taggccttgt  | tctcccaagc  | gtggcagtg   | ggatgttgtt  | 49200 |
| agaacatcct  | gttcttagtg  | agccagcagt  | gaaaggaaat  | aatctaagga  | aatgaagt    | 49260 |
| agtatattta  | acggaagagg  | ggatgggtgg  | agttttgaga  | gcacaactca  | gagtgttagg  | 49320 |
| ataaacacat  | ctgtggccct  | aacagctcat  | gagggctctg  | ccatgtcaca  | aacctgtgt   | 49380 |
| acttgtaata  | ccttcagtac  | caaggaagga  | ggcactcaca  | tggcaggaac  | tcagttaaac  | 49440 |
| ctatgtagcc  | aaatcagcgc  | tgctgatgtg  | gggactgatg  | ccagcgaagg  | agtctgtcag  | 49500 |
| gattcagagc  | aggactgctg  | cctctgcttt  | gtccttgatg  | gagttttttg  | gctttttttt  | 49560 |
| ctttcctttt  | cttttttttt  | tttttttttt  | gagtcagggt  | cttgcctctgc | tgtaccaggc  | 49620 |
| tggtgcgac   | atagcttact  | gcagcctcag  | actcccaggc  | tcaagtgatc  | cttctgcctc  | 49680 |
| ggcatcccag  | gtagctggga  | ctacaggcac  | atgccacagc  | ttggagatgg  | tgtctagctg  | 49740 |
| tggtgcccag  | gctgggtctg  | aacttctggc  | ctcaagtgat  | cctccacact  | tggcctccca  | 49800 |

|             |             |             |             |             |             |       |
|-------------|-------------|-------------|-------------|-------------|-------------|-------|
| aagcgctggg  | attacagcca  | tgagccgtgg  | tacctggccc  | tcagtggagt  | ttctatcagt  | 49860 |
| gacttacatg  | gctttcttct  | caggcatgtg  | acagttggga  | atagggaaac  | aggcaccacc  | 49920 |
| agcctcagtc  | ctgtttcctg  | ctttatcaca  | agggttgaca  | aacctcttct  | gtaaagggct  | 49980 |
| ggatagtaaa  | tctttctggg  | gctgcaaccc  | agttgctccc  | tggtgtaact  | gcttaactct  | 50040 |
| gctgtttag   | cataaaggca  | gctgtaggca  | atgcatacat  | gaatgagcat  | ggctgtgttc  | 50100 |
| caataaaact  | ttattttacaa | tgtgtacaaa  | tcagttgtga  | agatgagtcc  | tgatttaaga  | 50160 |
| aatggttgaga | tgagaaaagg  | tatatttagg  | aattcacaca  | tggtgaagac  | tctgctagt   | 50220 |
| caattatcaa  | gtaacttacc  | tcttgccaca  | tgccagagat  | cgagctactt  | tcattttatg  | 50280 |
| tcagcccatt  | tgattctccc  | agcaatccct  | gttcatttgt  | tcctctgtgt  | tttcaactga  | 50340 |
| tatcaattag  | gtgctcagtg  | tgccaccagac | tttgtgctag  | actctaaatg  | cataggcctt  | 50400 |
| tccatgtgac  | ttggagggaa  | cagggtagag  | gttagtgtaa  | cattccctac  | ttttgagagg  | 50460 |
| agacttgttt  | tacagataag  | ggagggacct  | gcatttggtt  | tctatatgac  | ttgctttgtg  | 50520 |
| ccttcaggag  | catacattgc  | agtgttagga  | ttctgacagc  | aaagtccaca  | gtctcctggg  | 50580 |
| catgtgtaca  | tgtgatgttc  | cctgtcacct  | gggctggagt  | gcagcgggtg  | gatcatagct  | 50640 |
| cactgcaacc  | tcaaactcct  | gggctcaagg  | gatcctcctg  | cctcagcctc  | tcgagttagt  | 50700 |
| gcacaccacc  | acaccagct   | actatTTTTT  | TTTTTTTTaa  | gatggagtct  | ctctctgtca  | 50760 |
| accaggctgg  | agtacagtg   | cacaatcttg  | gctcactgca  | accaaggtgc  | tgggttcaag  | 50820 |
| cgatactcct  | gtctcagcct  | ccttaatagt  | tgggattaca  | agcatgtgcc  | accacacctg  | 50880 |
| gctaattttt  | gtatttttag  | tagagatggg  | gtttcaccac  | attggccagg  | ctgggtctcaa | 50940 |
| actcctgac   | tcaggtgatt  | tccctgcctt  | agcctcccaa  | agtgctagga  | ttacaggcgt  | 51000 |
| gagccactgc  | aaccagcccc  | agctttttat  | tttttagtaga | gacctggtct  | cggtaggttg  | 51060 |
| cccaggctgg  | tctcaaactc  | ctggccgcaa  | gtaaatgtct  | cttcttgacc  | tcccacagt   | 51120 |
| ttgggattac  | aggtgtgagt  | catcacacct  | ggcctgtacg  | tgtgattgga  | atcctgtgta  | 51180 |
| gctgagagt   | caggccaccc  | tgcgatacat  | ctttgctcaa  | gagaaggaaa  | aatattctaa  | 51240 |
| tgattaatta  | aacaaggcag  | caaatgctcc  | ctcactagag  | ttggttgagc  | attattatag  | 51300 |
| atgtttatct  | gacaggagtt  | ttgcatcttg  | agtcatgta   | tctcataggt  | gatttttaata | 51360 |
| ctgattcttg  | atcttgcat   | catggctctg  | ttcacttaat  | cacaataggt  | gttgaggag   | 51420 |
| ctgaaacaat  | tgaatatctt  | cactttttct  | cattcttctt  | gcttttccct  | ggagaaaaaa  | 51480 |
| atggtgaata  | agtaggaatc  | catttatatg  | cagacatcat  | atgctgtgca  | catgcacaca  | 51540 |
| tatttttctc  | gcttttctct  | cttatgacag  | ttccacaagg  | cagacagtgt  | ttgtgatagt  | 51600 |
| ttttagatag  | aggcaactga  | gatgcatagg  | aggctaagtc  | actaactagg  | tcacataact  | 51660 |
| agttaagata  | aagctgagct  | ccaaacttga  | acatgtcaga  | ctctgaaatc  | tatgctcctt  | 51720 |
| tcacaatata  | gcctctccag  | tttagctttg  | gctgacttgc  | tgaagccttt  | tggtggagga  | 51780 |
| gtgtgtcacg  | tcaggaacac  | aaagtgggca  | gaacatagca  | ttttggggca  | ctgcagcagt  | 51840 |
| ctagaaagtt  | tagtaagtag  | ctaactgtt   | ttttgggttt  | ttttgtttgt  | ttgtttgaga  | 51900 |
| cagggtctca  | ctctgtcccc  | aggctggagt  | gcggcggtgc  | gatcttggtc  | tgggctcact  | 51960 |
| gcaagctctg  | cctcccagggt | tcacgccatt  | ctcctgcctc  | agcctcccaa  | gttgctggga  | 52020 |
| ctacaggcgc  | ctgccaccac  | gccagctaa   | tgttttgtat  | tttttagtaga | gatgggggtt  | 52080 |
| caccgtgtta  | gccaaagatg  | tctcgatctc  | ctgacctcat  | gatccgcccc  | cctcggtctc  | 52140 |
| ccaaagtgtc  | gggattacag  | gcgtgagcca  | acgcaccggg  | ccaacgtggg  | ttttcttgct  | 52200 |
| gcattttata  | acatctatgt  | ttacatttaa  | agtgatagag  | ttttccacaa  | caccagacat  | 52260 |
| accatttttc  | aaacagaagg  | tcaaagcaca  | tttgaaaatc  | aaaacaaatt  | gttttctatg  | 52320 |
| attattttcc  | acttttcccc  | tattattact  | atagtttctt  | tttttttctt  | tttagtgctt  | 52380 |
| tcatagctat  | tgattgatac  | ctacattatt  | attgttattg  | ttgtttgtag  | acatggagtc  | 52440 |
| ttgttggtgt  | gtccaggctg  | gtctcaaact  | gctagctcaa  | gtgatcctcc  | caccttagcc  | 52500 |
| tcccaaagtg  | ttgggattac  | aggcgtgagc  | caccgcaccc  | agcctcatag  | ctacactatt  | 52560 |
| gaagttctgg  | cttttacttt  | ctgaaagtaa  | tcccagggtca | cagatggtag  | tatggtagtg  | 52620 |
| gaaagagcca  | caaggagttc  | tcaaaagcag  | gagctgattc  | ccagtggcac  | agggaaacatt | 52680 |
| tcagctcaaa  | gcaagagagc  | aaggagagca  | ccttgctctc  | ctccgggtggc | agggattcca  | 52740 |
| tggttgggcca | ccacaagaaa  | ggggttccat  | ggatttctct  | ccagtagtag  | agtttgtgtg  | 52800 |
| agacaagatg  | tggttggtta  | tgtcaaagc   | agaccactac  | tcctagcact  | atgagagtcc  | 52860 |
| tgcatgggtg  | agaagctaaa  | gtctcctttt  | gcctgcttcc  | attcttagag  | aataagctca  | 52920 |
| agagaatttg  | gcctcctggg  | caatgatacc  | ccttccagggt | agaatcaatt  | gtggggaagg  | 52980 |
| atctatctcc  | accaggctct  | gcctccagct  | gttgagtata  | cacagctggg  | tctcagatgc  | 53040 |
| tggtgacccc  | tttgttttgc  | aggtggaacc  | aagctcacaa  | atcctcagga  | accaactttc  | 53100 |
| aggggcttcc  | atcaaaaata  | gatactctaa  | aggaagagat  | ggatgaagct  | ggaaataaag  | 53160 |
| tagaacagtg  | caaggtagta  | gaattccttg  | ataaatgtat  | cttttcggtt  | tttgcaaatg  | 53220 |

|             |             |             |             |             |             |       |
|-------------|-------------|-------------|-------------|-------------|-------------|-------|
| agggatgaaa  | gttcaaagt   | aagttactta  | atgtttttaa  | taatttctat  | cagaatattt  | 53280 |
| tgaatgattt  | taaaggtagg  | ttttattttc  | ttcttctcta  | agactatatt  | attttatgat  | 53340 |
| cagaataaaa  | cattttaaat  | ttcaaatagg  | atatttttaa  | aaacttgaca  | agatgtctaa  | 53400 |
| gcttatttaa  | agatgaagtc  | agaaaaaagg  | aaagaaaaacc | atagcaaaac  | atataataaa  | 53460 |
| attacagcga  | ttaaaaaatgc | ataagaaata  | caaaagtaag  | aaaaaagaag  | taaaactgta  | 53520 |
| taagaagcat  | taaaaatagat | cagtgaataa  | gtataggttt  | tctggaatga  | atgctataat  | 53580 |
| gtaaaattta  | atatacagta  | aatggctcat  | atgtccttgg  | agaagataag  | gattactttt  | 53640 |
| aaaatgttgc  | ttgaacaatt  | ggtttgtaat  | ttgggagaaa  | tagagctttt  | tatctcataa  | 53700 |
| attacagatt  | aattagatgg  | tcaagtgatc  | tcattctctc  | tgcattccacc | tgtgtagata  | 53760 |
| gatgttcatt  | ctgaatgtta  | tttgaggtga  | aattatttga  | aatggtaaag  | gaatagggtc  | 53820 |
| tcggggagtc  | ttgacaatct  | agagtcctaa  | gtctggattg  | acttagactt  | ttcctgctct  | 53880 |
| tatttttcat  | tgttttaaaa  | aaattgtttt  | tttatttcct  | gctaataatta | agactgttat  | 53940 |
| attttagttc  | atttaggtca  | tgacatactt  | tgtttttcaa  | aatagcaaac  | cttgatcagt  | 54000 |
| taactgcaat  | taaatgactt  | gtttaaaaata | atatagtggg  | tagaaatata  | agaaaaatat  | 54060 |
| aaaaataata  | tagtgggtag  | aaattaaaaac | taaactcaca  | aagttatgcc  | tttgttttaa  | 54120 |
| aaagttttta  | tgttttaaaag | atgatattca  | gataaatgct  | tctactaaaa  | taatgtcaca  | 54180 |
| ttggcttatt  | tgtggtctga  | agagttgtag  | ctttgtcagt  | gtcatttacc  | cagcagctct  | 54240 |
| cttaatatct  | ggtctaacct  | agatcctggc  | tattgcctac  | ttattgcaca  | caaatttggg  | 54300 |
| tagaggttta  | ggaagtcata  | atgggctgat  | gtctgttctc  | tcaacttcca  | cacttgtcag  | 54360 |
| tatttcaagt  | ggtaaaaaact | taagaaaaata | ttttctgcct  | ccttctctct  | ctatgcatac  | 54420 |
| cttgtgggta  | atttctcag   | atctatgttc  | tgtttctactg | attctctctt  | tagctatggt  | 54480 |
| tgatctgcta  | ctcaataaac  | actgagtttt  | taatttcatt  | gactatattt  | tccatttctg  | 54540 |
| aagttctagt  | tattcaaatc  | tttttgatac  | tacattatct  | ttttctagt   | tttctttctt  | 54600 |
| ttaagtcatt  | ttaaacatac  | ttatttaata  | atctctgtta  | attctgtttt  | ctgaaattct  | 54660 |
| ctgtgagagt  | ggtaggtgtc  | tgcttgtggg  | ggattatttc  | ctcatgtgtt  | ttgtaattat  | 54720 |
| ttgaactcat  | tttaagaggg  | gctttatctg  | tgggactatc  | agggattggg  | aatgagactt  | 54780 |
| cccagagagt  | attaccagtc  | caggctccatt | tttaattaaa  | cttaaatcag  | tttgggggtt  | 54840 |
| ctgggaccac  | atgtcagtaa  | attttaaactt | taaacctctc  | tgaaagcagg  | cctatgtttt  | 54900 |
| gtgaaatctc  | ttggccaatg  | tttctcagac  | ctaaagccca  | ttccaaaaca  | gacatacttc  | 54960 |
| cccatgattt  | ccatgtgatg  | ctaagtgcac  | ttgttctaata | ctgttggttc  | gttgagagta  | 55020 |
| cagttcttca  | ggaatcttat  | ctttatgcac  | gatatatgtg  | tacttggttc  | tccttactag  | 55080 |
| tccccaaggc  | ttcagacacc  | ttggtcacca  | agactggcac  | aaatctgccc  | caggctcatct | 55140 |
| ccagcttcca  | ttgatgctta  | gcattccgac  | tttttctttc  | tttctgcttc  | tttttcttct  | 55200 |
| ttctctcttt  | gtgtgtgtgt  | gtgtatgggtg | gggttgaggg  | gaatcaagga  | atttacttta  | 55260 |
| ttgctttccc  | agttattata  | aaaggatggt  | cattacttct  | aactagcatt  | tccaagtttt  | 55320 |
| tgtcataaat  | gggaggccct  | tcacattaat  | ttgtgtacct  | tgatgccaaa  | aacagaagtc  | 55380 |
| attacattaa  | aaaaaaaaaac | aaactctctc  | tacatatata  | ttttccggca  | tataagtttt  | 55440 |
| catatatata  | tatatatata  | aaattcctat  | gtatatttat  | atttgaagat  | tggaaatacg  | 55500 |
| tacctaatgt  | cctaactctgt | cacttaaaat  | ttcttttttg  | ccagggtgcag | tggctcacat  | 55560 |
| ctgtaatcct  | agcactttgt  | gaggctgaga  | tgggaggatc  | acttgagggtc | aggagttcaa  | 55620 |
| aaccaggctg  | accaacatga  | tgaaactcca  | tctctactaa  | aaaacagaaa  | aatattagct  | 55680 |
| gagtatggtg  | gtatgcacct  | gtagtcccag  | ctactcagga  | ggctgaggga  | ggagaatcgc  | 55740 |
| ttgaaccccg  | gagatggagg  | ttgcgggtggg | ccaagattgc  | gccaccagac  | tccagcctgg  | 55800 |
| gctacagagc  | aagcaagact  | ccatctcaaa  | aaaaaaaaaaa | aaaaaaaaaaa | aatttttttt  | 55860 |
| tttttttact  | tagagactag  | atcttgctct  | gttggtccagg | ctgttctcaa  | attcctgggt  | 55920 |
| ccaagcaatc  | ctcccacctc  | agcctcccaa  | agtgtctggga | ttacaggcat  | gagccatcgt  | 55980 |
| gcccgcccat  | tccacccctt  | ttttaaccca  | gatgttaata  | caccataagt  | aatgtctctgt | 56040 |
| actttgtctc  | ttaaacagat  | gtgttaaaat  | atatcttggga | gatctttctt  | tgtcagtcac  | 56100 |
| gtaagaagcc  | tccttattct  | ttctgtatgg  | ttgtaccagg  | cagttgatgg  | acatttaatc  | 56160 |
| tgtggtgctt  | tccatcactt  | tttcatctaa  | gagctcacag  | agattgttct  | cagatgccat  | 56220 |
| tttgtttcac  | ttcttttttc  | ttcaataacc  | tcttatcttc  | catttacccta | ggatcaactt  | 56280 |
| gcagcagaca  | tgtacaactt  | tatggccaaa  | gaaggggagt  | atggcaaatt  | ctttgttacg  | 56340 |
| gtaagcacct  | tcccttgaga  | aaatgttaaa  | gcattgttaa  | aatggagtca  | ttttagcttt  | 56400 |
| tttgcaaaaag | atttcatttt  | tagttttgct  | cagccattgt  | gtgtgtgtcc  | atccgatgct  | 56460 |
| aacgttactt  | ttgtttttga  | atgtgggtct  | gttctcagtt  | attagaagcc  | caagcagatt  | 56520 |
| accatagaaa  | agcatttagca | gtcttagaaa  | agaccctccc  | cgaaatgcga  | gcccatacaag | 56580 |
| gtaatgtaac  | ccgcgtgcgg  | ctgatgcttc  | cttcttgctc  | ctgccacctc  | tgcttgggtt  | 56640 |

|             |             |             |             |             |             |       |
|-------------|-------------|-------------|-------------|-------------|-------------|-------|
| cttcttcacc  | ctgactcctc  | tgcatgcacg  | tccttgggat  | aaagcttctc  | tgccctaggag | 56700 |
| ggtactgttt  | cccagcataa  | tttcatcttc  | cttgtctgcat | tctctaattt  | cttccaaacc  | 56760 |
| caaattaaca  | cactaatgga  | acattttag   | ttcttctgaa  | accttcagtt  | gaagagaaaag | 56820 |
| ctggcctctt  | tggggagtac  | ctgtgtgttt  | tcccatcttc  | tgtaggcttg  | aaaaagtcca  | 56880 |
| gcattgaatg  | atccttttcc  | acatcagtta  | tttgttccac  | aggacttaat  | tctggccatg  | 56940 |
| tgactccaag  | agcatccatt  | ctagggaaaa  | tattttggac  | tttccaaaag  | agaagccagt  | 57000 |
| acttgatgcc  | acatcatgca  | cgtcacactt  | aataataagt  | gtgattgaat  | cctaagaccg  | 57060 |
| tggtcgcttc  | gttcagactc  | ctcctttgtc  | tttatactaa  | gcttttgttc  | ttatcaccat  | 57120 |
| taatatttct  | cctatcatat  | tcaagcacac  | tgcatgttgt  | atctgcaagt  | taggtgcaga  | 57180 |
| ctgaactttc  | cccttatgtt  | gaattttaag  | ttgggcatct  | aaagctgctt  | tttttttttt  | 57240 |
| ctctccctaa  | agctttcgat  | gctgtgtctc  | tctgatttac  | cattagagca  | tttaccagca  | 57300 |
| gagatgagca  | cagctgttga  | gtcagaaatt  | gctcgccgt   | ctttggatct  | atttcacctg  | 57360 |
| tggtgtagac  | ctgacatttg  | gagcttatgc  | tcctctgcag  | aaccactggg  | cttgagctga  | 57420 |
| aaggggatca  | ggccaggtgc  | tgagtgggat  | gactttgtga  | ttttgagacc  | gagcatgtgt  | 57480 |
| ctgtgtgtgt  | tgtggggggg  | atgctttgtg  | gatgtgcata  | cataccagca  | ccttcaagaa  | 57540 |
| tgcgacttct  | tctcccccta  | agttccagga  | gatectcaca  | ggttctggct  | ttgtgcctga  | 57600 |
| aaattttggg  | attatggaat  | tataaaattt  | tatgtcttgc  | ctgaccatat  | agtcagatct  | 57660 |
| tcagcattct  | caggggcagt  | gtttctgatt  | ttctcagcca  | ttgcccttgc  | cttcccaa    | 57720 |
| aatcaagatt  | attagttcat  | ggaggatggg  | gttgagtcac  | agtgcaaagg  | aacgaggtct  | 57780 |
| ctggaaaatg  | ttcccacctt  | tctagggaca  | gactcttgct  | gggcaagtct  | agaggacca   | 57840 |
| gaaaatatat  | ttatgagata  | tctgctgtgg  | gctgggcccc  | gcataaggaca | aaatagtaga  | 57900 |
| caaatcatca  | ttttagcctt  | tgaatggctg  | agagtctgat  | ttgaaagagt  | tgattaacaa  | 57960 |
| gaggaaaaac  | gagagattgg  | attttttttc  | gcattttgtt  | tgtttgtttg  | ttttaagag   | 58020 |
| acaaagtctc  | actctgttgc  | ccaggctaga  | ctagaactct  | cattctgttt  | ttttcccaag  | 58080 |
| ggtattttcc  | ctagagaaat  | acatcaggaa  | gccatggaga  | gcggggatgg  | gacaggaaaag | 58140 |
| aggtaggat   | ggaacagccc  | gtggaggaag  | tgcgatttgt  | ccttcttgct  | gaggtcacc   | 58200 |
| tttaccgagt  | tgcaattcaa  | ccccctccac  | ctctgacctg  | ccttgtaacct | gcctttcatc  | 58260 |
| ttagttctgt  | cttttcttct  | cttgcctgtc  | tctctgtttt  | cagaaagact  | tatcttgtcc  | 58320 |
| ttactatata  | aaaaaagtgt  | gacctgcccc  | cacagccccc  | tcacctccgt  | ggactctggg  | 58380 |
| gtcacattca  | tggtcagttg  | gtggtaatct  | ggtagcttcc  | tgacctgaac  | acagcgtcct  | 58440 |
| gtttaatctg  | gttctccttc  | attttttctg  | gtgggtactt  | cagatgacct  | cttctgct    | 58500 |
| gccacctgca  | ttttcttacc  | accttcttac  | tcctgaatcc  | tttgactctt  | tgtgtctacc  | 58560 |
| cccaatccct  | ctgctgttta  | ggaaaaaaga  | gcaaaacata  | ctgcagtttt  | caaaggacca  | 58620 |
| gcaaccaccc  | gtcagatcct  | ggcatttgac  | ccggcatggg  | ccgtcccttc  | cttattcatt  | 58680 |
| tttgtctcct  | cacgccactc  | gactgtcttc  | tttcattgta  | aggactctgc  | attgtcccat  | 58740 |
| ttcttttttaa | aaatttttct  | tcaagaagga  | ttatatattg  | ctcatttctg  | tctccacccc  | 58800 |
| agaagtcagc  | cttttctgag  | gtccagtcct  | tgcacctctg  | ttctctccca  | ccctcacttc  | 58860 |
| ctcgccccct  | tttccctaga  | aatcccccta  | cttggacagc  | tttgcctctt  | acctgcattt  | 58920 |
| taatccttgc  | agcctcctaa  | gcacgggttc  | cctttgatga  | acagcactca  | ccttaaactc  | 58980 |
| aaaaagcaaa  | ccagtcctct  | tcctactcca  | actgtccctt  | ttctcccttc  | ttgtctccct  | 59040 |
| tatatcacct  | ttctccaagt  | gattcaggtc  | ttaaccttgg  | aaccttttct  | tccttctctt  | 59100 |
| cttccatcca  | gtgcctgggt  | tctgtccatt  | tcgccttagg  | ctctgtcatc  | ctctcttccc  | 59160 |
| ctggcccact  | ctgctccatg  | ctctcacggc  | cttggcgtga  | acttgggata  | agatgtaaat  | 59220 |
| tcccagactc  | acaattcctg  | atcttttctc  | agctgattgc  | ccctcacaaa  | gatgtgtttg  | 59280 |
| tcogtttttc  | agcctgttta  | atctctgtcc  | gtctcatgag  | acccctcca   | acctcatttc  | 59340 |
| ctttgagaag  | ccttctccga  | cagctgaagc  | caatggcaaa  | cactttgcct  | cttgaattgt  | 59400 |
| gccagcattt  | atgggtctaca | ccagaagtcg  | caaacagcca  | tatctcatta  | aaaattgtta  | 59460 |
| aaagttgggt  | gtcatcatgt  | gaaaaccaga  | tggtttgatg  | taacaattct  | gatttctggc  | 59520 |
| ttctcctgaa  | agtttgagaac | atctggcaac  | actggctttg  | ctttccacg   | tggcagtggt  | 59580 |
| ggtttgggtg  | agaggagtgg  | ttatcgcttg  | tcggcagatc  | gtgcactccc  | agcaggattt  | 59640 |
| gtgccccgtg  | gtacacctatc | cgactcctct  | ggacaattgc  | atttgcaacc  | cttgtctata  | 59700 |
| ccatcgatct  | gccatgactt  | agcaaataatg | tcttgtcttg  | ttattgactg  | ttctgtgttt  | 59760 |
| acatgtgtgt  | cttatattcc  | cttcacaatt  | caattgccct  | cttctgagg   | gtagggagtc  | 59820 |
| tctgttaact  | ttacatgcct  | cctgcagtac  | ctgacacata  | gtaggtctgt  | tgtttgagag  | 59880 |
| gccagtgcct  | gaggtggaat  | ttgccttatg  | acttgcctct  | aggctagtg   | ttctcacttg  | 59940 |
| cacctctgtg  | caacattata  | ccaggcttgg  | gggtggggta  | cactctgtcc  | agtgtttact  | 60000 |
| agaaagttcc  | agcagaggtt  | tgaagcatgc  | ccgcccccta  | gcattacagg  | gttgggcttg  | 60060 |

|             |             |             |            |             |             |       |
|-------------|-------------|-------------|------------|-------------|-------------|-------|
| tggtgaaggc  | aatggcgggg  | gtcatttgc   | gaacccccct | gggtgattcc  | agggcatccc  | 60120 |
| ctagtggag   | gctcacgtg   | ccattttcag  | cctgtgtgt  | aacttattgc  | tttagataaa  | 60180 |
| agggacaaag  | tatttcaggt  | aagatttgac  | ctctgggaag | gtccagaccc  | ccagatgcgt  | 60240 |
| tttctattgg  | aaattcccca  | gctggggccg  | ggccagagac | gaggagggct  | ccccacaatt  | 60300 |
| ctgagagtgg  | ctggtggcct  | gcacctcatt  | tttgtccccc | accttccttt  | ccctcacccc  | 60360 |
| tttcttcagt  | ctttacctct  | tgtcttttcc  | atccattttt | acctttccac  | aagctctcgg  | 60420 |
| ttctatggat  | ttgtgggatt  | ttatttttct  | tccttcccca | tgtgcaaatc  | taccctgct   | 60480 |
| gtgacatggg  | agagagtgt   | agaggacaca  | ccagagtaca | tactgccttc  | ttccaaccca  | 60540 |
| gcttttctaac | agcagagctg  | ctaagggacc  | aatggccagt | aaagggtgcag | agaaggacat  | 60600 |
| gaaccccttcc | tgttgttgg   | aagatttaag  | tgtttctccc | tggagcagtt  | ttcacaactg  | 60660 |
| gtttgccctc  | ctttgcttct  | gcgagctgct  | cagatagcac | tagatctctg  | cagcttgccac | 60720 |
| aggcaggcca  | aattcaacca  | gatacttctt  | attctaattc | atatgtccgt  | tctctaaatt  | 60780 |
| cttcttttcta | ttttactgct  | tcattgtatt  | tgtgctaagc | tgcctcataa  | cctgaagata  | 60840 |
| atctaaaaata | tggctttcct  | gccatcagca  | tagccttcag | ctgcttttagg | gctgcagatg  | 60900 |
| ctgcatttct  | ttccactcag  | aatttttccg  | agctgtttgg | ggatgcgggtg | ttctgaagca  | 60960 |
| ctgcatgccg  | cggagatgtc  | gcactctgat  | gagagtaact | gcaacgtgga  | gagttcacgt  | 61020 |
| tggccatctc  | cagtcttgta  | tgacagatac  | ttacttctgt | tttgaaattt  | tcagagatca  | 61080 |
| tttccatttt  | tgcatagcaa  | agaatctatt  | tcttgtcttc | tagctagaag  | gctttgcatg  | 61140 |
| gctagaataa  | atttcttttc  | aacgaaacgg  | tatgctctgg | caaactcttc  | ttttggttca  | 61200 |
| aggcagccca  | ctaaaccgcg  | tggcgtgtgt  | tgatgaagtg | tgggtgcaggt | gcagcgtgcc  | 61260 |
| actgcagctt  | ctgggcagcc  | tgagttgggt  | ccatctaggt | acgctcaggc  | ttctgttcca  | 61320 |
| caagtaaccg  | ccccagcctg  | gtccatagtt  | tgctgtctca | gtagatggca  | aataacaaaa  | 61380 |
| gcaaatagaa  | cagatgtatc  | ccctcttgca  | cagcctcacc | taccagtcgg  | ctagaaaagc  | 61440 |
| ccattgggta  | gttggggaga  | aaatagcttg  | gtaatgccgt | gagtttgttg  | ggtgtctaac  | 61500 |
| tgaacaattt  | gctgctctag  | ataagtgggc  | ggaaaaacca | gcctttggga  | ctccccctaga | 61560 |
| agaacacctg  | aagaggagcg  | ggcgcgagat  | tgcgctgccc | attgaagcct  | gtgtcatgct  | 61620 |
| gcttctggag  | acaggcatga  | aggaggaggt  | gaggggagct | tcgtgatcct  | gtgcaccaag  | 61680 |
| tctccatgcc  | ccttgtttgt  | cccagagcac  | catgctcccc | gccagccccc  | tgtccacccc  | 61740 |
| tgttagttaa  | tacagccatt  | gtccgttttg  | tgtagaacag | tggctttcaa  | gcttttgtca  | 61800 |
| ccatgatcca  | tatttttaaat | tgcaaccctg  | ttccctatga | tacctatctg  | tctatgaatg  | 61860 |
| aaacaaaggt  | tttacaaaaa  | aatgtttacc  | tttcttgatt | gtggtacacc  | ctgacctctt  | 61920 |
| tgtgtcctgt  | ttgattgttt  | catttataaac | tctggtttgt | atttgtgaca  | atagatttctg | 61980 |
| tgacgcacta  | atgggctaag  | gagcttttagt | ttacatttgc | atagtattat  | gcagtttttt  | 62040 |
| tgggtggagg  | tcattttacat | acttaatttt  | acaggattct | taccccaaac  | cccccatgaa  | 62100 |
| ccaaataagg  | gagttttttat | tactcttctt  | gtataaataa | ggaagtcagc  | atgcaggag   | 62160 |
| tttactccag  | gtcagagcta  | gaatcaaaat  | gcaaggcttt | ttttttttcc  | tttttaaacg  | 62220 |
| tttgtattga  | aatagaacgt  | acatacagaa  | aagcatacat | atcataggtg  | tacagcttga  | 62280 |
| tgtgcttgca  | tgactaaacc  | cacccatgga  | gtcggcgctc | agatcaaaga  | acatcccggg  | 62340 |
| agccctcctt  | gtgtttgctt  | ccagccactc  | cccttctaac | agcctacatt  | ggtgcttctt  | 62400 |
| gtctggggcc  | agatttgctc  | cccaggagac  | atttgtcaag | gtctggaggt  | attttggatc  | 62460 |
| atcacaactg  | agaagaggag  | gtgttactgt  | catctagtag | tagaggccat  | gtgtattcgt  | 62520 |
| ccattctcac  | actgctgtaa  | agaactacct  | gagcctgggt | aatttatgac  | gaaaagagct  | 62580 |
| ttacctgact  | cacagttcca  | caggctgtac  | aggaatcgtg | gctggagagg  | cctcaggaaa  | 62640 |
| cttacagtca  | tggcggaagg  | ggaagcaggc  | agtgttcaca | tgggtggaaca | ggagggaag   | 62700 |
| agcgagcatg  | cgcacaaagg  | gggagttgct  | acacactttc | aaacaaccag  | atcatgtgag  | 62760 |
| atctcactca  | ctatcacaag  | aacagcaaaa  | gggaaatcca | cccccatgat  | ccagtcacct  | 62820 |
| cccaccaggc  | cctgccttca  | acactggaga  | tcatacttcc | acatgagatt  | tgggtgggga  | 62880 |
| cacagaacca  | aaccatatca  | ccatggattc  | tgctaaacat | cctacagggc  | acaggacaac  | 62940 |
| ctccaacaaa  | aaatcatcca  | gcctaaaatg  | tccatagtgc | tgagggtcaag | aaactctgcc  | 63000 |
| cagattaatt  | ttcttctctg  | ctgtccctgt  | gcttgggtgc | gtgctcagcc  | ctcatcattc  | 63060 |
| ctcctgacag  | ccttgacagg  | caggcagtaa  | cactgctttc | atagacagga  | ggtgagcgga  | 63120 |
| agtgcgaaaa  | taccatcag   | aacacactgc  | cacttagtct | gagtgtccca  | acctgcactt  | 63180 |
| gatgctgatg  | gcttttctatt | atcttttaggg | ccttttccga | attggggctg  | gggcctccaa  | 63240 |
| gttaaagaag  | ctgaaagctg  | ctttggactg  | ttctacttct | cacctggatg  | agttctattc  | 63300 |
| agaccccat   | gctgtagcag  | gtgagcgcca  | aagagtgtct | gcaaatcaag  | tcacctcaa   | 63360 |
| ggcgggtggg  | aggttctgtc  | tcagacagat  | ggtcagttaa | aatccaattt  | cagttacagg  | 63420 |
| tttaagtgc   | aaaaccgaag  | tggctcttgc  | tacaatttct | tagtgtatat  | acaatgtaat  | 63480 |

|             |             |             |             |             |             |       |
|-------------|-------------|-------------|-------------|-------------|-------------|-------|
| gtacactgtg  | tcttctttac  | tccttttctg  | tttttctatt  | ttgatgatta  | aaagagagag  | 63540 |
| tagcttataa  | tgcaaataatt | tggagacata  | tttgtatttt  | cttcccatct  | ttcacagtct  | 63600 |
| ccccccacca  | aattcctttc  | tacctggaga  | aattatgtct  | gttaagggga  | tgactttaaa  | 63660 |
| actaatttta  | tttghtaattg | atctctttaa  | actttttttt  | ttcagagatt  | gaatttgttt  | 63720 |
| tatgaacatt  | ttagtctcta  | acaactcttg  | ccaacttatg  | atttgttatg  | tacaccttgg  | 63780 |
| aagatcggtta | ttgagatcat  | ttcaatttgc  | aaaataatat  | gtcccaagat  | tcctagcctt  | 63840 |
| accctttttt  | catactcaaa  | gagagtgtta  | atgatttcag  | gtgctttaaa  | atcctattta  | 63900 |
| cgggaattgc  | ctgaaccttt  | gatgactttt  | aatctgtatg  | aagaatggac  | acaagttgca  | 63960 |
| aggttaagttt | aaagaacaca  | gagttgtaaa  | tgtaaagggt  | aatgaagtga  | tattgtgccc  | 64020 |
| tatttgcaaa  | tcatttttatt | ctcagggatc  | ataagattaa  | aatagcgtat  | ttgttaaata  | 64080 |
| atacatgtct  | cagctcttat  | ttatgttttag | aataaaaaata | tcaagtatta  | taattattag  | 64140 |
| tgtaggaaag  | tcaccacgta  | ggcattgggt  | taaattttgtg | ttattttaggt | ggatgaagac  | 64200 |
| atagagtgggt | accacacatta | atggatttgc  | aaattttccag | ccccctttat  | ggtgaagaaa  | 64260 |
| gccctgtaac  | tggggatagg  | ggtcactactg | accctgggca  | gtgtgccttt  | tgagctgtgt  | 64320 |
| gcagtctcac  | ctgtgcgata  | atacagttgg  | cctttaaaca  | gcatggggat  | taggggcatt  | 64380 |
| gataccctac  | ataattgcaa  | attcaagtat  | acttttaact  | ccctcaaaac  | aactaatagc  | 64440 |
| atactgttga  | ctggaagcct  | tactgataac  | ctagtcaatt  | aacacataatt | ttgtatgttg  | 64500 |
| tatgtattat  | atactgtatt  | cttacaatag  | ataagctaga  | gaaaaagtac  | tattaagaaa  | 64560 |
| attgtaagga  | ggagacaatc  | tgtttactat  | tcattaagggt | gaagtggatc  | atcttaaagg  | 64620 |
| tcttcactct  | tgtcttcactg | tcgagtaggt  | tgaagaagca  | gagaaagtga  | aggggttgggt | 64680 |
| cttctgtttt  | caggggtggc  | agttcatctg  | tgagtttttt  | cagattgtcc  | gagatctcca  | 64740 |
| ggaattttcc  | tatatgttta  | ttgaaaaatt  | tgcataataag | tggaccttgt  | gttgtcagct  | 64800 |
| gtataatgat  | gacattaata  | tttactgagc  | attttcttgt  | gctaagtact  | gtgctcatct  | 64860 |
| ttgtagctat  | tacctcctgt  | aatctttaat  | taacgttata  | aaaggcagat  | gatgtttgtga | 64920 |
| tccacatttt  | acagagagga  | aactgaggct  | tgggagggaa  | cagggccagg  | agagtagcaa  | 64980 |
| gtaattggca  | gagctagaat  | tcaaaccaga  | cagacccaaa  | tgctatatcc  | ctctacttcg  | 65040 |
| tccctttccc  | tccacctca   | gcttcagtct  | gtctaggaac  | agatgatttt  | aagcaggaca  | 65100 |
| gctttgttta  | aaaagcctag  | aggcttctgc  | ttggctggcc  | agcccacctc  | ctcgtctttt  | 65160 |
| ttctcatggc  | gctgactccc  | ctcctctcca  | gagtgccctac | tcctcaccac  | taagggaaga  | 65220 |
| ggaacaaatc  | tcacctctgt  | tctgtcctct  | tccccgtcta  | cggacactgc  | ccctgttccc  | 65280 |
| tgcaggcagg  | ccatgatcaa  | ataagagcca  | cttattttctg | atcagttaca  | cttcagtggga | 65340 |
| tgtgagtcca  | tcgcttgtgt  | ctttaaccag  | gttttgcatt  | tgagcttttt  | tccttttttt  | 65400 |
| tttttttttt  | ttgtgagttg  | gagtcccact  | ctgtcgccca  | ggctggagtg  | cagtggcaca  | 65460 |
| gtctagggtc  | actgcaacct  | ccacctccct  | ggttcaagca  | attcccctgc  | ctcagcctcc  | 65520 |
| tgagtagctg  | ggattacagg  | cgcacaccac  | catgcctggc  | taattttttt  | gtatttttag  | 65580 |
| tagagacaag  | gtttcaccat  | gttggccaga  | ctgggtctcaa | actcctgacc  | tcaggcaatc  | 65640 |
| tgccctgcctc | ggcctcccaa  | actgctggga  | ttactggcat  | aaaccaccgc  | gctcagccgc  | 65700 |
| atlttgagctt | ttctctgtaa  | ttgtggaatg  | agactttgtc  | cctggtagat  | ggtgaggttt  | 65760 |
| ttaaagttcag | agacaagttc  | ttagtcatca  | cgtatccttg  | gaaccctgcc  | tggggcccag  | 65820 |
| cctgctgtca  | gtattaatgt  | ttatgggaca  | gaattcagta  | gaatccaaca  | tcagtgttag  | 65880 |
| gtagaagaga  | gttgtgggat  | ttctttttatt | ggctagcctc  | ctaccaata   | aaagatttcc  | 65940 |
| ttgtttatta  | caaggaaata  | aacttgtaaa  | agaaggcgtc  | tatctgtttg  | tatattgatt  | 66000 |
| ctatagttga  | gaattgtcaa  | tatgggtggg  | cttccatccc  | agtaacacat  | cgactggcct  | 66060 |
| ctaaagtgtg  | attatgttta  | atccctatcc  | atgttctcca  | gaatggttct  | gttctggagg  | 66120 |
| atattttcacg | ttcaaagtgg  | tgttatagag  | gcccccttaa  | cactcttggt  | ccctagtggg  | 66180 |
| cagagtgggc  | cgtgctctac  | aggctcctca  | ctgccccctt  | tttatgtctc  | tgcaagtttg  | 66240 |
| taogttgcgc  | ctgtggagtg  | caagagctct  | tacagttgct  | tcacaacaga  | aatgggctgc  | 66300 |
| ttgatgtgca  | gccagtttgc  | agtattgcaa  | gcgaggaaag  | accagaggt   | ctgggtgcct  | 66360 |
| gggagctcag  | ccccctgatc  | tgtggctggg  | ctgcttgagg  | gtaggagaat  | ttgggttctg  | 66420 |
| taaagccata  | cgtcagtaca  | cactttttct  | agacagaatt  | ttcagtagtg  | tcttgtctct  | 66480 |
| tctgtgccaa  | gcattgggtg  | aggtgggttt  | gtcacagacg  | cctcaaaatc  | gttcagcaga  | 66540 |
| atcaacactt  | accctgtttt  | gcacatccag  | agattgaagg  | ttaaccaact  | gcgcagagtt  | 66600 |
| aaacagttaa  | ttgggtatttg | actctaaatc  | tgtttatattc | catagcatgg  | gctgttttcc  | 66660 |
| aactgtgctt  | tctctgtcaa  | aatggaggcc  | tcatttttaa  | catagcatat  | taataagata  | 66720 |
| attgggtgtct | taataagttg  | ttgtacttaa  | aagtttttgt  | tctcagtgtg  | caggatcaag  | 66780 |
| acaaaaaact  | tcaagacttg  | tggagaacat  | gtcagaagtt  | gccaccacaa  | aattttgtta  | 66840 |
| acttttaggt  | tgtatgattg  | agctacaatg  | actctggagt  | gaagataagt  | ttaatgccc   | 66900 |

|             |             |             |             |            |             |       |
|-------------|-------------|-------------|-------------|------------|-------------|-------|
| gcagagaagt  | catttaattc  | aggcatactt  | ggcacattaa  | aaaacaacaa | caacaacaaa  | 66960 |
| aaaaaccaca  | tcactttgga  | gagtaacttg  | gggctactgg  | gaatgggatt | tcatgtatat  | 67020 |
| tatgatgaat  | ttgaagcatc  | agtatcatgc  | ctgacattaa  | tacgtaagtt | ggcttatcat  | 67080 |
| tttcccacta  | cagctattag  | caataaattt  | cttgtgaaaa  | gtttgagtga | ctgtatgttg  | 67140 |
| ggtttgaggt  | ccaaatcatc  | cagtatgtta  | aaaggcaaaa  | ttaatcaata | attgtacatt  | 67200 |
| ctgtaatgtc  | ttttatatat  | gctacttaat  | ttaaagtata  | aatcatctta | ctaaataaaa  | 67260 |
| tttcaaagaa  | tggagattat  | atattgcttt  | gtggaataac  | tgtggtttta | agaaaattta  | 67320 |
| ccatgggaca  | aaacttccat  | aatgtaactt  | ctgttttcct  | tttgacttaa | tatgtaactt  | 67380 |
| tgaacaagta  | tagagaaaa   | gaaaaagtgg  | cctcaggtagg | taaagtcact | caaaaccaa   | 67440 |
| caaagaaaa   | tttctagaaa  | gtgcccctag  | aaaattttcc  | ttgtttgggt | ttgagtgaca  | 67500 |
| ttaagtgcac  | agtcagaata  | gtttacaggt  | gatatgcctg  | gaatgttact | tgtccttaaa  | 67560 |
| ttccgccttg  | ggctctccta  | ctaagctaag  | ctacatactg  | ccttttaaat | attccctttg  | 67620 |
| attaatttaa  | ctcaccacc   | ttggaattac  | agatactctt  | cctctattca | gtgtatatgg  | 67680 |
| tgagagctca  | gtacttctta  | gtatgttgag  | agtttggtc   | tttattttgt | ttattttact  | 67740 |
| ctgtaattgt  | tactaattga  | tttttgaata  | gggagcacat  | tcccatgggt | caaaattcaa  | 67800 |
| atggtatacg  | atgaaaaatc  | tctctcctgt  | tcccatacc   | cagccacca  | gttctctctc  | 67860 |
| tgggatgcat  | ccagtgttta  | cagtttctta  | tatatcctct  | cagcaagagt | taatgtagac  | 67920 |
| gtaagcagat  | acattcgtgt  | gtacatactt  | gcctgtgtgt  | tttctctctc | acacccctt   | 67980 |
| tttaaaaaac  | caaaggttag  | tgtatattgt  | atacgtcatt  | ctccccctta | ccttttttgc  | 68040 |
| ttgacagctt  | aaggatattg  | cgtaatacat  | cctggagatt  | tttctctctc | agtacatttt  | 68100 |
| gtaatgatgg  | tagcatagtc  | ctccactgta  | tggatatact  | gtgatttatt | taagcagctc  | 68160 |
| cctattgata  | ggttgttctt  | acgtttttgc  | ctttatatga  | ctgtacttat | acataaggta  | 68220 |
| ggtatatatg  | ataaattgga  | tatttttata  | attccaccat  | aaagtgtttt | caaatacagt  | 68280 |
| ttcctgtaag  | caatataact  | gtgtctgttt  | ttgtatttaa  | aaatattgag | ctcactatta  | 68340 |
| acacattata  | acttataata  | ggggtagaat  | agataggaca  | taaaggagaa | attgattaga  | 68400 |
| aatatacagc  | caataggggt  | tcaaatcact  | gagattttaga | cttaacctat | tttcttcttc  | 68460 |
| caagccctaa  | ttagtctatt  | atctgaagca  | aagaacacaa  | gaaatgtata | aaatgcttca  | 68520 |
| cctgagccag  | attctgattt  | aggaaccttc  | tgcagtttagc | acctgagcaa | actgggattg  | 68580 |
| tgcctccagg  | caggaagaga  | acattccagc  | agctatttca  | gaggagaaac | cctccccctc  | 68640 |
| tcttttgacc  | cctagatatt  | tgatcaagtt  | ccttgcaaag  | cctgctcaga | ccagcgatgt  | 68700 |
| gaataaaatg  | actcccagca  | acattgcat   | tgtgttaggc  | cctaacttgt | tatggggccag | 68760 |
| aaatgaaggg  | taagtcactt  | ttctctgtat  | catttgaatt  | tcttctttcc | cacctgatgg  | 68820 |
| gatgcataga  | aatgtaactc  | aggttacaca  | ttctagttta  | agatcaattc | aaggatttct  | 68880 |
| gaagttgggt  | ttctcattca  | gcctatatte  | ttggaacaca  | gctgtgagct | gggtgctgtc  | 68940 |
| ccagctgggtg | gtgacacaaa  | gatgtgtgag  | acattgtccc  | agttctcaaa | atgcccctgc  | 69000 |
| tcttaggcag  | tcagatagct  | cagtggctac  | agtacagtga  | taagaaaaat | acacatattt  | 69060 |
| atgtgtgtgt  | atatatgata  | ttgtaggagg  | ggtagcactt  | ccaccctctt | aggggtgtctg | 69120 |
| gctgggcctg  | agaactaaat  | ggacataaga  | cagggttaaca | ggagaaagca | tacagatttt  | 69180 |
| tacattttta  | tgcccagcag  | agaagccatt  | taattcatgc  | ctacttagca | cattaataaa  | 69240 |
| aaaacacatc  | actttggaga  | gtaacttggg  | actactggga  | atgggatttc | acgtatatta  | 69300 |
| tgatgaattt  | gaagcatcag  | tgtcatgtct  | gacattggag  | ttcccatagg | aaaaggaaga  | 69360 |
| tccaaagaag  | cagggtggaac | tgaatgctta  | tatatgaagt  | tggacaaaaa | gtaaattgtg  | 69420 |
| aaaacgtgac  | cagacaaagg  | agcatgggct  | agggcagtta  | gttgtggaga | agtgactagg  | 69480 |
| aagataagga  | ttcggttcagc | aagggttgggt | tatggagggt  | tccctcagcc | ttgcctcccc  | 69540 |
| gtccctgggtg | ttaggaatgt  | ttctttcttc  | ctggtataag  | gagggcatcc | ttcacatggg  | 69600 |
| agttttatctc | tgtctttcag  | gatgaaaaag  | gaaggtcggg  | gccctcttct | tgcattgtgat | 69660 |
| ggttttcaac  | tgtcttttaac | tcaaaataat  | cctatgccta  | aggagcatat | tttgggatag  | 69720 |
| cgtattctgc  | ccccctttatc | aagtatgacg  | gcagcagagg  | taaagaaaca | taattcaggc  | 69780 |
| tgagaagtca  | gggaaagctc  | tgggttaggga | atggcactgg  | agctgtacct | tgatgagtta  | 69840 |
| acagtttctgt | acagccagga  | cctggatggg  | ccaagacact  | gttgaaaggg | cctgggtttcc | 69900 |
| atcgtttatg  | ggcatgtcac  | gtggcttcgt  | gaaacttgaa  | gacagagaac | atgaggctgt  | 69960 |
| gactgggaag  | gccagagcct  | tcaagggcct  | cacacattgt  | actgaggtgt | ctgggactta  | 70020 |
| ttttctgggt  | gggtggggagt | cattcattaa  | ggttcctaag  | cagaataatg | tcttaagttg  | 70080 |
| cacttagata  | actttattgg  | cattgcaaaa  | tgtagattga  | atagaggagg | ggtcggggga  | 70140 |
| tccgctggaa  | agcttctggg  | aaattgtcac  | tctgtggatg  | gcattgtgat | gatctcattt  | 70200 |
| agtaatcaga  | agtaaccttt  | tgaatagagg  | acataaagga  | gaaattgatt | agaaatatat  | 70260 |
| agcaaataga  | ggttgaatca  | ttgacattta  | tactgttgtc  | cctgtttttg | cagatgagga  | 70320 |

|             |              |             |             |             |             |       |
|-------------|--------------|-------------|-------------|-------------|-------------|-------|
| cgctgactct  | tagaaaagaaa  | aagtaatttg  | cttaagggtca | cacagcaggg  | aactgggtgtg | 70380 |
| cccagggttct | ggatacacagag | cctgtgtcct  | tattaaccct  | tattagcttt  | ccagtactct  | 70440 |
| cctaaaaagaa | aaatgggaaa   | ggatggagag  | gacagttcct  | ccctaatacca | gcagagtttt  | 70500 |
| aaggcacaca  | gactgatcag   | attccacatg  | ggaggaaggc  | tgggaaggat  | catttacagg  | 70560 |
| cagagcttca  | atttttaagct  | ggaatttgaa  | aggagcaaga  | aattttactt  | ggtcggaaaag | 70620 |
| tgggtgaaaa  | tactctgatg   | ggaagagagg  | tcagagtgat  | aggagaggag  | aggtttgagg  | 70680 |
| cagtacagacc | tgggattgag   | cttgggaacc  | cagtgtcctc  | atgtaggcct  | cataacgggt  | 70740 |
| tgttgtaaaa  | attaagcgag   | gtgaagaacc  | tgaagcctgg  | taggtggcca  | gaaagtgtca  | 70800 |
| ggccttttgc  | aggtggtttg   | cttttggtg   | gttctgactc  | tcagctgaaa  | caggagcttg  | 70860 |
| atagcagtga  | taataactct   | tacttttttc  | ttcttcttct  | tcttcttctt  | tcctttcttt  | 70920 |
| ttttttttga  | gacaagtctt   | cgctttgttc  | tccaggctgg  | agtgcagtgg  | tgtgatcatg  | 70980 |
| gctcactgca  | gccgcaacct   | cctgggctca  | ggctatcctc  | caaccccagc  | ctctccggta  | 71040 |
| gctgggaata  | cagatgcatg   | ccaccacacc  | tggccaattt  | ttgtattttt  | gtagagatgg  | 71100 |
| gatttcacta  | tgttgctccag  | gctggctctg  | aactcctggg  | ctaactgcct  | cagcctccca  | 71160 |
| aagtgtctggg | attacaggtg   | tgagccactg  | cgtctggcct  | acttattttc  | ttctttttga  | 71220 |
| gccttggcgt  | cagacactat   | taacatctga  | acactcatct  | tgagactagt  | ccacatatat  | 71280 |
| gatgacctta  | cgtgtgaatg   | ggaggtcag   | gtttcaacat  | aataaaaaggc | acatttgcca  | 71340 |
| ggcgccgggtg | gctcacgcct   | gtaatcccag  | cactttggga  | ggccgagacg  | ggcagatcac  | 71400 |
| aaggtcagga  | gatcgagacc   | atcctggcta  | acaccgtgaa  | accctgtctc  | tactaaaaat  | 71460 |
| acaaaaaatt  | agctgggcgc   | ggtggcaggt  | gcctgtagtc  | ccagctactc  | gggaggctga  | 71520 |
| ggcaggagaa  | tgggtgtgaac  | ccaggaggcg  | gagcttgagc  | tgagctgaga  | tagcgccact  | 71580 |
| gcactccagc  | ctgggcgata   | gagcgagatt  | ctgtctcaaa  | aaataaaaaa  | taaaaaata   | 71640 |
| aaaaataaaa  | ggcacactgt   | aacaatgcat  | gttcttggtg  | atatcgtagg  | caaaattgct  | 71700 |
| tttttagtaat | ctttagtctt   | agaacatagc  | taccacccat  | gtgtgatgct  | attccagtgg  | 71760 |
| gaaagtgcaa  | ccctctttac   | agaccagttt  | aaaaccagca  | tttgacacag  | cattgtttgac | 71820 |
| tgactggttt  | tgtgcccc     | agggctctgtg | tgtagcagac  | actgtggttg  | ttatcacagt  | 71880 |
| gcacactaag  | gagcagccaa   | gccagagtca  | ttttttctctg | ggtgatcacg  | gccacattca  | 71940 |
| tagaccagga  | ccatgtgaat   | ttgatttttt  | tttttttttt  | ttgagacaga  | gtttcgctct  | 72000 |
| gtcactaggc  | tggagtgcag   | tggcctgatc  | ttggctcact  | gcaacctcca  | tcttccgggt  | 72060 |
| tcaagcgatt  | ctcctgcctc   | agcctcccga  | gtagctggga  | ctatgcgaac  | gcaccaccac  | 72120 |
| gcctggctaa  | tttttgtatt   | tttagtacag  | acgggggtttc | accatgttgg  | ccaggattgt  | 72180 |
| ctcgatctct  | tgacctgtg    | atccgcccgc  | ctcagcctcc  | caaagtgtctg | gggttacagg  | 72240 |
| tgtgagccac  | cacacccggc   | cagtgatttt  | gatttttgca  | tcttttaaat  | attttatcct  | 72300 |
| ttaaaaataa  | ttgaattgcc   | ctgacacaac  | cagaagaaat  | tagatgctgc  | ctacaggaag  | 72360 |
| tattttaatt  | ttgtgaactt   | gctttgcaga  | acacttgctg  | aaatggcagc  | agccacatcc  | 72420 |
| gtccatgtgg  | ttgcagtgat   | tgaacccatc  | attcagcatg  | ccgactgggt  | cttccctgaa  | 72480 |
| ggtaattctc  | acttcagttt   | cattgaccgc  | caaagcaatg  | tgataatcgt  | acaaaaagtc  | 72540 |
| ttcttaagag  | aatacatctg   | taatccttct  | tcattgattac | gtaattgggt  | tcactttttc  | 72600 |
| atgtttcttt  | ccagcctttg   | ttcattgcat  | ttgtattttg  | acatgatggg  | aatcatattg  | 72660 |
| tattgtattt  | cacttagttt   | cactaaaaca  | tagccagtca  | gtgtatgttg  | aataccact   | 72720 |
| gggtgccata  | tgtttgctgg   | tgaaacatgc  | cgtcttacct  | gggggaactc  | cggccactgg  | 72780 |
| agaagatggc  | cacatgaaca   | gataaattat  | aacacaaggc  | acattagaag  | ataggtggat  | 72840 |
| ggagaaagat  | ttgacaaact   | caagtgtctg  | gaaaagggaa  | ccagggattg  | gttttttagaa | 72900 |
| gaggcgatgt  | tgaatatgct   | ggagtttttc  | acttgggaaga | gggcttggtt  | ctctagctag  | 72960 |
| attatggatt  | tgcccataga   | taggagataa  | agcaggaaaag | gttgatcggg  | gccagctggg  | 73020 |
| gaaggcctga  | gttggctgtg   | tcagggaatt  | agtatttcat  | cctgctggca  | atagattttc  | 73080 |
| aaactagggt  | tgttgagttt   | ctgggatcca  | cagaggttcc  | catggcccc   | tttggggatg  | 73140 |
| ctggccaggc  | aagtgttggg   | attccggatc  | ccccacacct  | acttcccca   | gagcaacct   | 73200 |
| gctgccatgt  | cccgtggggg   | gcaagcccca  | tgatacccat  | ctttccctca  | ccactgagcc  | 73260 |
| catcttttct  | ttaccactgt   | tttgtcacca  | tcaggaaatca | cgctcatctc  | atataggttg  | 73320 |
| cccagtgagg  | atgggatgga   | tgagcgaatg  | ctagcattct  | gctcaagggt  | tcctttgagg  | 73380 |
| aaatgattct  | tgcaaaaact   | gctaaaggca  | gtatgaactt  | gatgttgctt  | tttatttcta  | 73440 |
| ttttatatta  | aagtgtaaat   | atctctcttt  | tttttttttt  | ttttgagaca  | gagtcttgct  | 73500 |
| ctgtcgccca  | ggctgaagtg   | cagtggcgcg  | atctcgccc   | actgcaacct  | ctgcctccca  | 73560 |
| ggttcaagcg  | attctcctgc   | ctcagcctcc  | tgagttagctg | ggaatacagg  | catacatcac  | 73620 |
| catgccagc   | taattttttg   | tatttttagt  | agagacgggg  | tttcacgttc  | ttggccaggc  | 73680 |
| tggctctgaa  | ctcctgacct   | caagtgatcc  | gcctgccttg  | gcctcccaaa  | gtgctgagat  | 73740 |

|             |             |             |             |             |             |       |
|-------------|-------------|-------------|-------------|-------------|-------------|-------|
| tgcaggcatg  | agccaccaca  | cccagctaaa  | tgtctctttt  | tgaatgatta  | aataagtgat  | 73800 |
| ctgtgctcat  | cgtcctcttc  | tacattctag  | atttggtttt  | atttatTTTT  | tttccacaaa  | 73860 |
| agagaaagca  | caaaagtgtg  | taacttatat  | tctgacccat  | acttcttccc  | ctgtcttgct  | 73920 |
| ctcttaacat  | tacttcccac  | tggtttgatg  | gaccattctt  | gcgatgtgag  | tgcttgaggc  | 73980 |
| ttccactttg  | aaatagttag  | ggctgtggac  | tgaagaacga  | ggttcccgtt  | ccaatgaggg  | 74040 |
| gtgtcttaga  | gctccctcgc  | ctgtgtgtct  | cagtgtctca  | tgacttgtt   | tatttttctt  | 74100 |
| cttgacagagg | tggaaatttaa | tgtatcagaa  | gcatttgtac  | ctctcaccac  | cccagttctt  | 74160 |
| aatcactcat  | tccacactgg  | aaacgactct  | gactcgggga  | ccctggagag  | gaagcggcct  | 74220 |
| gctagcatgg  | cggatgatga  | aggagacttg  | gtgaagaagg  | aaaggtatga  | tttgaccgtt  | 74280 |
| cacttccaaa  | ccagcagtaa  | atatgttggt  | agaccctggg  | tatctggtat  | cgctcagtgg  | 74340 |
| acttgggatt  | tgagagtggg  | cgccatccac  | ccatgactga  | tgggtgtccag | atagtttctg  | 74400 |
| gaattctgct  | gtaggtcatt  | ccaagcacta  | atctcaccat  | aaagttagtg  | tgtagcttct  | 74460 |
| cagttaacgt  | ttcttccacg  | tgtattccag  | cttaacttgg  | tgggtgtgctt | ggtaagccct  | 74520 |
| gcagtggaa   | ggcatcatac  | acatgttaaa  | agtgaaccag  | atgtacgtga  | gtggggggaa  | 74580 |
| acagaaagga  | aaataaattc  | aatagtgtgg  | acttttgtcc  | agaattgagt  | gtgagaacac  | 74640 |
| ccacctggca  | cagtgaattg  | agtgaattgg  | cgtttaagga  | gacatatttc  | tgggtataatg | 74700 |
| tgccccaca   | atggaagcca  | accactgaat  | ttgatgttca  | gtgggaaaaa  | cctcagtatt  | 74760 |
| tgccaattct  | agaagaaaaa  | aaaatggcag  | tgttgaactt  | agtgagaagc  | agtgtgtctc  | 74820 |
| tataactctt  | tttctatggg  | caattcatgg  | gattttcaag  | gggtgattaag | actgtttgta  | 74880 |
| atttgtgctt  | ttggatgcca  | acctgtccca  | tgtgtgtgat  | gaaatgccac  | tgtactcact  | 74940 |
| aggaatgcta  | acagttaaga  | ggcctgttgg  | aagtaatatg  | cttttcttgg  | tatattaaat  | 75000 |
| aataactacta | gaaatagttt  | tacattaaaa  | cgaagtgaac  | agctcttatt  | ttaattgctc  | 75060 |
| agtcttatag  | tgaggtgtgc  | tgtttgtttc  | ttgttctttg  | tattgcattt  | tttaccctta  | 75120 |
| gcaaaggaga  | atgcattatt  | ctgtccctat  | tctgtccttc  | caaaatccac  | atttattcta  | 75180 |
| tgcagacgta  | ttacctctct  | gaaccctcat  | tcatacattc  | agtagtattt  | cctgatgaca  | 75240 |
| gactctacct  | gtaacaaaat  | tagctttcat  | atattttaag  | ttacagaata  | cagtgcata   | 75300 |
| gtctagttag  | cacgtgacag  | acaattctca  | gttacctgcc  | ttgtgtattc  | tccctgccag  | 75360 |
| ctgacccagt  | aagcacgagc  | tcaagaagcc  | aggtatcttt  | ttactttttg  | aactgaaaga  | 75420 |
| aaaagtgtgt  | aagttcatag  | atcagtcgcc  | ttaagtgaac  | agtcagcctt  | ccttccaccc  | 75480 |
| tctccagcca  | catccagcca  | ccattccctt  | ccccaaagca  | acggcttttt  | ccagtctttt  | 75540 |
| tgggtttttg  | ttttttgaga  | cagggttatg  | tgcccaggct  | agagtgcagt  | ggatgatgca  | 75600 |
| tggtctacag  | cagccttgac  | ctcctgggct  | caggcagccc  | tcccacctca  | cacacctgac  | 75660 |
| tagctgggac  | tataggcacg  | caccacctca  | cgcagctaat  | tttctaaaaa  | aatagttttt  | 75720 |
| tgtagagaca  | gggcctcacg  | atgtttccca  | agctggctct  | gaatttccaa  | gctaaagcga  | 75780 |
| tctctccacc  | ttgtctctcc  | aaagtgttaa  | gattacaggt  | gtgagctacc  | atgccagct   | 75840 |
| tttccagcct  | tatgtacctt  | tcacatgtag  | tctgcatatg  | cacataggat  | tgtttctaca  | 75900 |
| tctcatctca  | gttaagaggc  | agtgtggtgt  | gataacctta  | cactgccatt  | ggtaggcctt  | 75960 |
| ctggacttga  | cttctgtgtc  | attccccaaa  | aacagatttg  | agatgggaac  | taggaagtat  | 76020 |
| ggaaataggc  | cggatgtggt  | gacttatgcc  | tgtaatccca  | gcactttgag  | agaccaaggc  | 76080 |
| aggaggaata  | cttgaggcca  | ggagtttgac  | atcagcctgg  | gcaatgtagt  | gagaccgcat  | 76140 |
| ctctacaaaa  | aaaaattttt  | tttttagtat  | ccagtatggg  | gatgtgtgcc  | agtagtccaa  | 76200 |
| gctgtctccag | aggetgaggg  | tggaggattg  | tttgagccca  | ggagtttggc  | actgtagtga  | 76260 |
| gctatgattg  | ctccactgga  | gtgccaagca  | ctccagcctg  | gggtggtggg  | tgagaccaca  | 76320 |
| tgtctaaagg  | gggaaaaaaa  | cagcagagga  | agtatgggga  | taaacacact  | aacatgatgt  | 76380 |
| cattcaagat  | gaggcctgcc  | tatttgcttt  | tagctgtctca | cacccaaatt  | gatcaaagac  | 76440 |
| attgaacagt  | accaggttca  | ttggctttgc  | tcaggcttga  | agccagtggt  | agttgtctag  | 76500 |
| gggtggccat  | tagtctgggc  | cttgccgctt  | cactgcatgc  | cgggcagctt  | gggtggctat  | 76560 |
| ccccatgtgt  | ggttttaaca  | catgtggacc  | gatgggcttc  | tgtctcagta  | gtctgtctgc  | 76620 |
| atgggtgtgt  | gactgtttct  | tctctctgtg  | tagctttggg  | gtgaagctta  | tggacttcca  | 76680 |
| ggccaccggg  | cgggggtggca | ctctaaatat  | aaagcacata  | tcccccgctt  | tccagccggc  | 76740 |
| acttccgccc  | acagatggca  | gcaccgtggg  | gcccgcctgg  | ccagagcccc  | ctccccagag  | 76800 |
| ctctagggct  | gaaagcagct  | ctgggggtgg  | gactgtcccc  | tcttcccgcg  | gcatactgga  | 76860 |
| gcagggggccg | agcccaggcg  | acggcaggta  | aggaggctga  | cttctgctgg  | cagtggaggc  | 76920 |
| tggacgcccc  | agccttcttg  | cagggtggtg  | cctttgagca  | cggcatccat  | gccccaaaga  | 76980 |
| ctgtcccagc  | atggagtga   | cagatttact  | ttcactcctc  | tgggtggcaa  | aagatggaaa  | 77040 |
| aaaagactat  | gaatggctcg  | cttcttttta  | tgttttccaa  | agaaagcaac  | attgggttgc  | 77100 |
| attctttgcc  | acactgcttt  | gggtgctggaa | accggaagcc  | agtggatgtc  | tcatagtgtg  | 77160 |

|             |             |             |             |             |             |       |
|-------------|-------------|-------------|-------------|-------------|-------------|-------|
| atgagcctct  | gtcacctgtt  | ggatgtatac  | tgtcagcatt  | catgtacctt  | ctgttcattg  | 77220 |
| tcattccagt  | tgctaaccag  | gaagcatttg  | agtgtggcaa  | gttagttaaa  | ttttcgtatt  | 77280 |
| cctggcattt  | attcacccat  | tcgttgattg  | attcagtgaa  | acagatttac  | tgagtcactg  | 77340 |
| atatgtgcta  | ggcacatgag  | gtgactaaga  | ctccactcca  | cacccccaga  | tttcagtctt  | 77400 |
| gtagggcagt  | tgatccatga  | gtccaagggt  | gaaaataaga  | tggtagcttt  | tcttttttct  | 77460 |
| tttttttttt  | tttttttctg  | agactgcgtc  | ttgctctgtt  | gcccaggctg  | gagtgcagtg  | 77520 |
| gcataatcgt  | agctcactgc  | accctccgcc  | tcctaggccc  | aagcaatcct  | cctacctaag  | 77580 |
| cctcccaagt  | agctgggatt  | acagggtgctt | gtcaccatgc  | ccagctaatt  | tttttatatt  | 77640 |
| tgtaaagatg  | gggtaaacad  | agatgcccta  | ggttgccag   | gctgatctcg  | aactcctggc  | 77700 |
| ctcaagtgat  | cttcctgcct  | cagccttcca  | aatgctggg   | attacaggca  | tgagccacca  | 77760 |
| tgccatagctg | gtagattttc  | ttaaaaggct  | cttttagttg  | cttaaccttt  | ggataagcca  | 77820 |
| cctggagtg   | gctgcaaatg  | gatagcaact  | tttaagaaaa  | gtcaccttga  | acttgagggt  | 77880 |
| tttttttttg  | agacagtccc  | actctgtcgc  | ctaggctgga  | gtgcagtggg  | gcaatctcgg  | 77940 |
| ttcactgcaa  | cctccgtctc  | ccgggttcaa  | gtgattctct  | tgccctcagc  | taccggagta  | 78000 |
| gctgggatta  | caggcacaca  | ccaccatgcc  | aggctaattt  | ttttgtattt  | ttagttaaaga | 78060 |
| cagggtttcg  | ccatgtttgg  | caggctgggc  | tcaaactccc  | tgacctcagg  | gtgatcccc   | 78120 |
| ctgccttggc  | ctcccaaagg  | ctggcattac  | agggtgtgagc | caccgcggcc  | cagccataac  | 78180 |
| ttgagatttt  | tatttaattg  | acattaatc   | agttctccac  | actgatccag  | gcagatgacc  | 78240 |
| accagaggct  | acttcagggt  | gcattctctg  | tggtttggaa  | ctgacagctg  | cttagctttg  | 78300 |
| catacatgtg  | tgccaaaatt  | tttgttgtca  | tatgttctgc  | attggccatc  | cacaacacac  | 78360 |
| cgaatgatca  | tatatgaagt  | aaaataaatg  | tgcaaaaaac  | aaggacaggc  | tgtttatcca  | 78420 |
| cacgtttatt  | tcccacacag  | agagatgaat  | ttgccttgaa  | agaactcctt  | tctcatcgtc  | 78480 |
| cttgggatga  | gcaagggaga  | gccttgttgt  | gtgtgaagct  | gctcgtgaga  | taggaatctt  | 78540 |
| gtttcaccat  | taaaactgaa  | tgtgtgaatgc | tttgtgcatt  | cctgaattcc  | attttcttca  | 78600 |
| ccttgggaaa  | gtttactttg  | gggttaaaaa  | aaattaagac  | ttcagacttc  | ttagggtctc  | 78660 |
| ccgtgcacct  | cataggctgc  | acgttagctt  | gtcaataatt  | gtgccctatg  | catgtacttg  | 78720 |
| ttttggttta  | aatttttttg  | tttgaaggaa  | aaaagtctaa  | gcaaattcac  | ttattttctt  | 78780 |
| tttcttggtt  | ttgtttttta  | tttttattta  | tttttattta  | ttaattttatt | ttttgagacg  | 78840 |
| aagtctcgct  | ctgttgccca  | ggctggagtg  | cagtggtgca  | atgttggtct  | actgcaacct  | 78900 |
| ctgcctcctg  | ggttcaaattg | attctcctgc  | ctcagccgcc  | ggagtagctg  | ggattacagg  | 78960 |
| catggaccac  | catgcctggc  | taatttttgt  | attttcagta  | gagatggggg  | ttcaccatgt  | 79020 |
| ttgccaggct  | ggtcgcgatg  | tcctgacctc  | aagtgatcca  | cctgccttgg  | cctcccaaag  | 79080 |
| tgctgggatt  | acaggcgtga  | gctactgccc  | cggcctggtt  | tttgttgttt  | tttttttttc  | 79140 |
| agacagggtc  | ttgctctgtc  | acccacgctg  | gagggcagtg  | gtgtgatcat  | ggctcactac  | 79200 |
| agccttttaa  | tctcccaggc  | tcaagcgatc  | ttcccacctc  | agcctcccaa  | ctgggacat   | 79260 |
| agtagtgcac  | ccccatgccc  | agctaatttt  | tttaaatttt  | tgtagagacg  | aggtctcact  | 79320 |
| gtgttgccca  | ggctgggtctt | caatcctggt  | ctcaagcagt  | cctccctccc  | taacctccca  | 79380 |
| aagtgtggtg  | attacaggca  | tgagccacca  | tgcccagcca  | atttacatat  | tttcatttac  | 79440 |
| cttgtgacat  | tccatttgtt  | taacaaggct  | aaatgtatta  | ttaagacaat  | aattagtctt  | 79500 |
| aatgcagaag  | gacaaatgga  | atgtcagtta  | ctttgctttt  | tttttttttg  | agacagcatc  | 79560 |
| tcgctctgtc  | agccaggctg  | gagtgacgtg  | gcatgatctt  | gactcacggg  | aacctccacc  | 79620 |
| tctggggttc  | aagcgattct  | cccacctcag  | cctccagagt  | agctgggact  | acaggcatgc  | 79680 |
| gccaccacgc  | ctggctaata  | tttgtatttt  | tagtagagac  | ggggtttcac  | cttgttggtc  | 79740 |
| aggctgggtc  | tgaactcctg  | acctcaagtg  | atccatgtgc  | ctcagcctcc  | caaagtgtcg  | 79800 |
| gcgttacagg  | cgtgagtcac  | tgtgcctggc  | ctgctgtttg  | tttttttatac | tgtattctgt  | 79860 |
| aggtattttt  | atgtacatta  | cactaatgtt  | attcactctt  | tggtgacctt  | gacaaaatgg  | 79920 |
| agctacagag  | tttgggtataa | aaagtctctg  | gccaggaaac  | aggaagcctg  | aattctgatc  | 79980 |
| tctatcctgc  | tgctaccaac  | tctggacttc  | gagtagtcat  | ttagcctctg  | agttctcctt  | 80040 |
| cttcagtcca  | agttattgat  | aataatcaag  | ccctttatca  | tttagggctt  | tattttgcca  | 80100 |
| tggctttttg  | ttagttttgt  | acagtgtata  | tgtcaacatg  | taaaagccat  | ttcatgggat  | 80160 |
| taagtactgc  | ccaatttaag  | tccaaacgca  | gtagaactga  | aaactccgca  | ttgggtgtct  | 80220 |
| tgaaatggtc  | tctctgatga  | tactggagtg  | gcagagtcgt  | tggagtccag  | tctgatgcaa  | 80280 |
| cgaatctcat  | aaaataaata  | gtcctatagt  | ccgggtact   | caggggtgctg | aggcaggaga  | 80340 |
| ggattgcttg  | agtccagaaa  | tttgagacca  | acctgggcaa  | catagcaaga  | cctcatctct  | 80400 |
| taaaaaaaaa  | atggcaccaa  | gtaaacatta  | gctctttata  | tggcaccaag  | taaacattag  | 80460 |
| ctttataagc  | ccagtgtgag  | ctagttagaa  | tttcagatcc  | ttttcctgcc  | tgccgaagtg  | 80520 |
| aaaactctgc  | ttggaatctt  | atgttttatg  | tgcagtatgt  | tcagattttc  | tagctgggat  | 80580 |

|             |             |             |            |            |             |       |
|-------------|-------------|-------------|------------|------------|-------------|-------|
| tgtctgacgt  | ctaacttgac  | ttttactcct  | cttagtcctc | ccaaaccgaa | ggaccctgta  | 80640 |
| tctgcagctg  | tgccagcacc  | agggagaaac  | aacagtcaga | tagcatctgg | ccaaaatcag  | 80700 |
| cccaggcag   | ctgctggctc  | ccaccagctc  | tccatgggcc | aacctcacia | tgctgcaggg  | 80760 |
| cccagcccgc  | atacactgcg  | ccgaggtaag  | cagccaccgt | cctccttgcc | ctcaggggag  | 80820 |
| cctgtgcaga  | cctccttaag  | ttagtgcaag  | gattcagatg | gtgaggtttg | tggccagatc  | 80880 |
| ttttctatgt  | ctgttgtaaa  | atcccaagca  | gaaaattcag | tcattcaaga | gaaaagtcac  | 80940 |
| taaagaaaaa  | ggaaaaaata  | gagaacagaa  | aagcagacat | ttagtttttc | cttaggcgtg  | 81000 |
| acaaagctta  | acaaacagtc  | agttctgcag  | aaatgctccc | agttttcctg | gtgtcccaag  | 81060 |
| ccctcgctct  | gtttgagac   | taccacagcc  | tctgtacttc | tcagctttgt | gggtctggga  | 81120 |
| ggcacttttg  | cttcggaatt  | gggtggaag   | ctttctaggt | cctgattaac | agaatctgaa  | 81180 |
| ctgctcccac  | ctgtcttccc  | tgagtcctc   | caccagcag  | ccagggggaa | tgctttaaaa  | 81240 |
| ctccaagcag  | atcatgtcgt  | ctcttggtta  | aactcttcag | tggcttccat | gcgaacttct  | 81300 |
| caccctgggt  | tctctgtgct  | ttggtggggc  | ctacctctga | gccagagct  | tacactccct  | 81360 |
| cctctcaaca  | cactccactc  | ttggttcctt  | gaatgaacta | agttcatccc | ctccttaggg  | 81420 |
| cttccagaac  | attctgtccc  | atatcttcac  | atggtttctt | cttaccattc | aggtctcacc  | 81480 |
| tcaaaaatca  | cttcttccag  | ctgggcgtgg  | tgggtctaca | cctataatcc | cagcactttg  | 81540 |
| ggaggctgag  | gcaggaagat  | cgcttgaggc  | caggagtggg | agaccaatct | ggtcaacata  | 81600 |
| gtgagagccc  | acctctacaa  | aaaaaatttt  | aaaaattatc | tgggtgtggt | gacacacacc  | 81660 |
| tatagtccca  | gctactcagg  | aggctgaggc  | aggaggatca | cttgagccca | ggaggctcag  | 81720 |
| cctgcagtga  | gctatgattg  | caccaccgca  | ctccagcctg | gacaacagag | tgagacccca  | 81780 |
| tctctaaaat  | aaaaaagaga  | ggccaggcgc  | agtggctcac | accagtaatc | ccagcacttt  | 81840 |
| gggaggccgg  | ggtgggtgga  | tcaactgagc  | caggagtcca | agcctggcca | acatggtgaa  | 81900 |
| accccatctc  | tactaaaaat  | acaaaaatta  | gccgggcatg | gtgcttgcac | gcctgtggtc  | 81960 |
| ccagctactc  | aagaggctga  | ggcaggagaa  | ttgcttgaac | ctgggaggca | gaggttgag   | 82020 |
| tgagccaaga  | ttgtgccact  | gcaccccagc  | ctggccaaca | gagcaagact | ctgtcccga   | 82080 |
| aaaagaaaaa  | aaaatggatt  | aaattcactg  | tgtctgtcta | tagaagcatg | gtctttacaa  | 82140 |
| agcactacac  | aatgtttagt  | ggaatttcta  | caaactcatg | gcaggagggc | aaatccgagt  | 82200 |
| ccactgcttg  | ggtgcagacc  | cccactttat  | tcttcttcag | gctgcctctc | tgggccctgt  | 82260 |
| catcttatca  | ggatcctcag  | tgatccttga  | gggaagttag | tcttctggac | ctagattcca  | 82320 |
| ggtgtgactc  | tggttttgga  | ttaagaagac  | tcttttcctt | atagccgcat | tcagagtctt  | 82380 |
| tcatgcttcc  | cgaatcacca  | gctcccaggc  | ttcttcgcag | gatgggtttg | attctttttt  | 82440 |
| ccttccccac  | cccctgcgcc  | tctgagggtg  | tctcagacaa | ggcctccatt | tctcccagcc  | 82500 |
| ccctccccct  | gacactttgc  | tcccacgctc  | cctctcccca | tcctcttcac | acccttaaat  | 82560 |
| ttcaggaacg  | agctttttat  | cagtatgact  | ttacaattag | tattgcttag | aacagaaaac  | 82620 |
| tagacttttt  | ttttaaatgc  | cgatggcagt  | ctggagtaca | gctaattgaa | gctgggttgt  | 82680 |
| ggtttctgag  | ttccagggtt  | gaaagtcca   | gaccagtgtg | gcagagtaga | ctttaccctt  | 82740 |
| ttttcttttt  | ttttttcctt  | tcttatgttt  | tttagaggca | gggtctcggt | ttctcaccca  | 82800 |
| tgctggaatg  | cagtggcggt  | ataatagctc  | actgcacctc | ccagccactg | gactcaagtg  | 82860 |
| atcctcccac  | tttggcctct  | caaagtgtct  | gtactacagg | cacatgccac | catgcctggc  | 82920 |
| tgctttatatt | ttttgtagag  | tcgggggtctc | actgtgttgc | ccaggctggt | cttgagtgat  | 82980 |
| cttctgcctc  | cagccagtcg  | gagtgtctgg  | aatacaggca | tgagccaccg | agactttacc  | 83040 |
| cttttcaatc  | ctgaattctg  | ggccctgtaa  | acaggcagcc | ggggaatagg | ggaaggagga  | 83100 |
| agaggaaaaa  | gcattcaggg  | agtcacacat  | tcatgggcag | gagtctcagt | tctgcccctt  | 83160 |
| actagctgtg  | tgacctatta  | ccaaacactg  | gccctcttca | agcctcagtt | ttcttctctg  | 83220 |
| tgaaaatggg  | gataacagag  | cttgccctgc  | aatgagctta | tgaaacttga | atgagataat  | 83280 |
| ttatataaat  | tataatgtgc  | ataatttata  | taaaaggcct | tacttggtac | tgggtgataag | 83340 |
| agtatacat   | gttcatttct  | ttccttcatt  | tcttctcctc | tctttcttag | agaaccagta  | 83400 |
| ggatcttagc  | agagtttgaa  | aaaggctaaa  | atctctcctt | ttcccctacc | cctcccagcc  | 83460 |
| caaaaccaga  | gccccagatc  | tggtgttttc  | cctcctgccc | tcacagtcct | caggttccta  | 83520 |
| tccctgatct  | cagctgggtg  | agggaggaga  | gtgatgtgat | tcagctctct | ttagagaaat  | 83580 |
| aattctaaag  | caactcttcc  | agattttatc  | atgcttttgt | ccaggacata | tctattaact  | 83640 |
| caaagtgttg  | cggaattggg  | agaaattctg  | ttattaagac | caatcaaacc | aatcaaactc  | 83700 |
| tcaaggagaa  | ggtggcttgg  | gatcaggggt  | catgttatat | cagggtgaac | tagtcatgct  | 83760 |
| tgggtggccc  | tcctggctgt  | tctgcctctt  | tctgcgtctt | cccatggggc | cctaattagg  | 83820 |
| aggctgctaa  | gtgggctgag  | ggcagcactt  | ccgtgtcatt | gggggtggct | ctgttaacag  | 83880 |
| ttttcttctt  | attgaacttt  | caaaacgata  | ggccttttaa | gccctttcaa | atgtgcataa  | 83940 |
| tgtacttaat  | ttttaaaaata | aacttggttg  | tttgagtaga | ttttgaattt | atagaaaagt  | 84000 |

|             |             |            |             |             |             |       |
|-------------|-------------|------------|-------------|-------------|-------------|-------|
| tgcaaagata  | atgctgagag  | ttcccatatg | ccccttactc  | agtttcccct  | gttggttaatg | 84060 |
| tgttacatga  | ccatggcaca  | tttaccacag | ctcagaagtc  | aacattgggc  | tagtcccccc  | 84120 |
| atccccccca  | actttttttt  | tttttttgaa | atggtctcac  | tctgttgccc  | aggctggaat  | 84180 |
| tcagtggtgt  | gatcactgca  | gccttggact | tcccaggctc  | atgggatcct  | cccacctcag  | 84240 |
| cctcatgagt  | agctgggatt  | acaggcgcat | gccaccacgc  | ccggctaatt  | tttgtagttt  | 84300 |
| tttgtagaga  | tggggttttg  | ccacgttgct | caggctggcc  | ttgaactcct  | gcactcaagt  | 84360 |
| gatccgcctg  | ctttggcctc  | ccaaagtgct | gagatcacag  | gcgtgagcca  | ctgcaccttg  | 84420 |
| cggttcatta  | ccattaacta  | gactccacat | tttgttcaga  | tttccctagt  | ttttccactc  | 84480 |
| atgtccatth  | tctgtcccag  | gatctcatcc | aggagcccac  | attatatgta  | gtcatcgat   | 84540 |
| cttcttcgtc  | tctgtctgtc  | tgtgacatgt | tctccgtctt  | tctgtgcttt  | tctatggcct  | 84600 |
| tgatggtttt  | ggagagtact  | ggtcaggcat | tttgaagaaa  | ggccttcaat  | ttgtgtttgt  | 84660 |
| cagatgtttc  | tatgatgggt  | tttgagggtt | ggggagggaag | acacagtgtg  | gtgccctcct  | 84720 |
| gaccacctct  | catcagaggt  | acatgatgct | ggtgtacctt  | attactgggt  | atgttaaatt  | 84780 |
| tgggtccctg  | gccagggttg  | gttgctgcct | cactgttctt  | actgaaaggt  | gttttttctc  | 84840 |
| tttttgtgca  | gctgttaaaa  | aaccgcctcc | agcaccctcc  | aaaccgggca  | acccacctcc  | 84900 |
| tggccacccc  | ggggggccaga | gttcttcagg | aacatctcag  | catccacca   | gtctgtcacc  | 84960 |
| aaagccaccc  | acccgaagcc  | cctctcctcc | caccacgac   | acggggcagc  | ctccaggcca  | 85020 |
| gccctccgcc  | ccctcccagc  | tctcagcacc | ccggaggtag  | tccagcagct  | tgtctccaat  | 85080 |
| ccaagctccc  | aatcaccac   | cgcgcagcc  | ccctacgcag  | gccacgccac  | tgatgcacac  | 85140 |
| caaaccctaat | agccaggggc  | ctcccaaccc | catggcattg  | cccagtgcag  | atggacttga  | 85200 |
| gcagccatct  | cacacccctc  | cccagactcc | aacgcccccc  | agtactccgc  | ccctaggaaa  | 85260 |
| acagaacccc  | agtctgccag  | ctcctcagac | cctggcaggg  | ggtaaccctg  | aaactgcaca  | 85320 |
| gccacatgct  | ggaaccttac  | cgagaccgag | accagtacca  | aagccaagga  | accggcccag  | 85380 |
| cgtgccccca  | cccccccaac  | ctcctgggtg | ccactcagct  | ggggacagca  | gcctcaccaa  | 85440 |
| cacagcacca  | acagcttcca  | agatagtaac | aggtaagtag  | gacatcaatg  | cccgtatttc  | 85500 |
| ctcgtctgct  | ctacattgct  | tttgtactac | tacattttat  | ttaagctttg  | atttatgcca  | 85560 |
| ggtgtcagca  | aactacaccc  | gcaagccaaa | ccaaacctgt  | cctgcagcca  | gtttttgtca  | 85620 |
| ttaaagtttt  | attggaacac  | agctacaccc | atttgttaac  | atattgtctg  | tggctgcatt  | 85680 |
| ggtgctgaaa  | cagcagagct  | gggtagtcgt | gaccaaagat  | cctgtggccc  | acaaagtgtg  | 85740 |
| aaacattttac | tgcctgggtc  | tttaagtttg | ccgaccctg   | acttatagtt  | gcttgtgtgt  | 85800 |
| tttaagacct  | tgtacgttta  | catttttctc | aacataatgg  | cttttattcc  | aggtggaagg  | 85860 |
| tatttttaca  | cacgagcatg  | aacttttatt | cttagtgaat  | tcctcattaa  | aatgcttaaa  | 85920 |
| cagtactttct | aagagtaaaa  | gtgttcata  | taagtacaga  | atttcaggta  | taacttttaa  | 85980 |
| aaacatgatt  | tatgccaaat  | tgaatgctcc | agaagggaga  | tctcagggca  | ctgtcatgtt  | 86040 |
| ctaattggctt | gggaggggaag | aatcaagatt | ttcctgtaga  | cccagtggga  | acctgttttg  | 86100 |
| aagtgggtgg  | gattgtacag  | gttttagtgg | gctacctaat  | ggcatatttt  | taatagtcta  | 86160 |
| gaacatgacc  | attttatttt  | acatttcaag | aatatttcca  | tcccaaatgc  | tctaatttat  | 86220 |
| tattttaattt | aaggatgaat  | atgggggttt | ctagtgtgtt  | tttaaaaatg  | gtaattaggg  | 86280 |
| gcctcaaata  | atttcttaca  | gcagcctagt | ttaaattgtt  | ctaagtggag  | gcactttcgg  | 86340 |
| aaaagaagct  | gaaatacacc  | tctgggcttt | ccaaccatat  | tgagtgcatt  | tgcagctaaa  | 86400 |
| aatgtgccaa  | ggtttccatt  | aaccctaaag | gtgacgggta  | actgattcta  | acagcttttg  | 86460 |
| ataacttttt  | tcaggaatat  | aatacataat | ttgcacatgt  | tataaatggt  | taataacttt  | 86520 |
| ttttctgatg  | ccatcagagc  | ttttattttg | aaaacaacaa  | agccatgttg  | gtttgtttgt  | 86580 |
| tttgtttccc  | aatagatgcc  | cttcctagt  | ccctcacagg  | tggggaagg   | ttccaggact  | 86640 |
| aaggctctgta | atggccccga  | gcagcttgcc | ccatagctcg  | ccccacagct  | ccaaatgctc  | 86700 |
| ctgcttagcc  | gtgttttgca  | tatgtgcttt | tgaccatgtg  | ctcaggagca  | gccgtttgac  | 86760 |
| cgtgtgccct  | gacagccaat  | aggccatcca | ttctgtagca  | tattgacatt  | tctttatttt  | 86820 |
| tatcagaagc  | actttgagct  | gcagtgcctc | aaattcgagg  | agtagatgtc  | agtagatcaa  | 86880 |
| gagcctgatt  | tcaagctgct  | cttgaagagt | atcttctttc  | ttagggggcca | agcacagtgg  | 86940 |
| ctcgtgcctc  | taatcccagt  | actttgagtg | gctgaggcaa  | gaggattgct  | tgagctcagg  | 87000 |
| agttcgagac  | tgcagtgggt  | agtgattgtg | tcactgcaca  | ctgcagtcca  | gcctgcatga  | 87060 |
| cagagtgaga  | ccctgcctct  | ttttaaaaaa | aaaaaaaaaa  | aggaatatct  | tctatctttt  | 87120 |
| tgggtgagcct | cttagcagca  | gtctactctt | cccagtgtga  | tttacctgtc  | actgatgggc  | 87180 |
| tcaccagcat  | ccaaccaaag  | aggacccagg | tgcagtcagc  | acgggaggaa  | attgtgtcct  | 87240 |
| ttgtgtcttg  | agctttaatt  | ttaaattttt | gtatttttaag | tgcaagttaa  | ctgcatggag  | 87300 |
| cttcttaatt  | tgatatttta  | aattctcaag | acaaaaaat   | taaaaaaat   | cttccgccaa  | 87360 |
| ataccctaca  | ctgaattatt  | ttaaattcct | ttgcaccta   | gcatgcttac  | gttttgcttt  | 87420 |

|             |             |             |             |            |             |       |
|-------------|-------------|-------------|-------------|------------|-------------|-------|
| attaaaccat  | atgagctttt  | taaaaggcac  | tgtgagctca  | tctaagtctg | ccgctgggtc  | 87480 |
| tacatgtgga  | cagcataagg  | ccctcatcat  | atgtacagct  | gctttaatca | gctggcctga  | 87540 |
| gccttaggcc  | tactgtgggc  | cccttagcca  | gagtgtcac   | agcttaggtc | tgagtaagac  | 87600 |
| tttctgtagg  | aaccgtaagt  | ggaaaaccag  | agtgtagcct  | tcaaaacagg | gaggaggccc  | 87660 |
| gggtgcgatt  | ccacaatttc  | atgcttgtga  | cacaccaaaa  | tgttattatc | agatatttcc  | 87720 |
| ttttatttaa  | atgaaagatt  | gcaaaccaga  | attatgccta  | ttttttaata | ccattgttac  | 87780 |
| ccgggggtga  | tttattccac  | aagttaggtt  | tactgatctg  | ctacaacact | gtaataact   | 87840 |
| gcctgtaatt  | attagataag  | tgaaatttta  | cattaaaaat  | gtgtttcccg | aagatactag  | 87900 |
| ctatttaaaa  | accggtctat  | gctatgaatt  | ctcctaactc  | aagaaattcc | aggttaccag  | 87960 |
| agttatcttt  | gtattacaga  | attaacctgt  | actatcttaa  | aatcccctgg | cctcccactg  | 88020 |
| aaagtacaca  | gaaggccaac  | atttagaatt  | ttttaatctg  | ctagtattga | tcatactgct  | 88080 |
| attaaccatt  | cttggatgta  | gccattgggt  | ttttcaagga  | ggaaaaaata | tataacttcc  | 88140 |
| ttggacagga  | tggtccttta  | ttatgacata  | atgttttcac  | ttagaaaact | ttagatggac  | 88200 |
| aaattcctga  | aaacagggtta | ttcctttaga  | attggattaa  | gttagagttt | taaagagttg  | 88260 |
| ggttaaggct  | aatgggatta  | agataaactc  | ttggggggag  | attattgctg | ccaagcaggt  | 88320 |
| ttggcagcca  | acttctcaca  | gctcagcacc  | agcactggag  | gatgccggca | ttctggcatc  | 88380 |
| atthttgagtc | tcctgttaat  | tgtgactcta  | gagagcagta  | agagttttta | ttcccatgta  | 88440 |
| aaagagttta  | catcttgcta  | tttttgaagt  | aatagatthtt | agcaaagagt | attctaattt  | 88500 |
| aaacattttta | ttaaataatt  | tagatgtatg  | acctgccata  | ttcagtaaga | actgagattg  | 88560 |
| gaatatthta  | tggttaaggaa | aaggcacctg  | attggccaat  | gcatttttgc | tacttgatga  | 88620 |
| tcataattgt  | gcactcatgc  | ctgttactaa  | ctggccaccc  | taacctgcc  | tgcttgcatc  | 88680 |
| cctactaata  | gtgcatgcac  | tgaaggagga  | ctggctttgt  | tgatgcttgc | tgcaatgatt  | 88740 |
| cggataacta  | agtgtgtacc  | cagatgtgga  | acaggtgggtc | acagggctgt | ccttgttact  | 88800 |
| tctttaattt  | ccattctttt  | ccatatcagg  | caagcttgag  | gtatagtagg | aagaacacac  | 88860 |
| attatggagt  | cagacctgac  | tgagttagaa  | tttcagctct  | tggtataaca | taggctaggc  | 88920 |
| acaacctggc  | tgatctgtaa  | agtggtgaca  | tctgtctaaa  | ttgttgaaga | tgaaataaga  | 88980 |
| gaaagtccaa  | gattattctg  | ttagccagtt  | acagttctta  | atatacgccg | aatctcggct  | 89040 |
| cactgcaagc  | tccgcctccc  | aggttcaagc  | aattctcctg  | cctcagcctc | ctgagtacct  | 89100 |
| gggattatag  | gcgcctgcca  | ccacatctgg  | ctattttttt  | tatttttagt | agagacgggg  | 89160 |
| cttcaccatg  | ttggccaggc  | tggtctcgaa  | ctcctgacct  | taggtgatcc | ggcctcctca  | 89220 |
| gcctcccaaa  | gtgctgggat  | tataggtgtg  | agccattgtg  | cctggcctgc | tatttatcat  | 89280 |
| ttttatctag  | aagaaaaatg  | ttttaatcag  | atttctatgt  | tagattcaca | tatcagggtt  | 89340 |
| ttaaaaactc  | atcaccccg   | acccggcctt  | ctaggacca   | aacacaggag | actgggggtg  | 89400 |
| gaaccaggt   | atccatattt  | tgattctgat  | gcaccacttg  | gttttttgaa | tctcacttct  | 89460 |
| ttcatgggtt  | aaaaagacaa  | tgctctgcag  | aaggagataa  | catatacatt | catataattt  | 89520 |
| agtgagcctg  | agactgtctg  | tgaggcggtta | gtccactgta  | ccacagatag | accaaatacac | 89580 |
| tcacaaagta  | gccataagcc  | tggaactttt  | gctggctaatt | ttcatagtgt | ttgcttttta  | 89640 |
| aactctcacc  | cttcttatgt  | catgtaagta  | atgccttttt  | aaaaataagc | atgagctggg  | 89700 |
| gcacgggtggc | tcacgcctgt  | aatcccagca  | ctttgggagg  | ctgaggcggg | tggaatacatt | 89760 |
| gaggtcagga  | gttcaagacc  | agcctggcca  | acatggggaa  | accccatctc | tactgaaaat  | 89820 |
| acaaaaagtt  | agctgggtgt  | cgtgggtgggt | gcctgtaatc  | ccagctactt | ggggaggcca  | 89880 |
| aggcaggaga  | actgcttgaa  | cccaggaggt  | ggaggtcgca  | gtgagctgag | atcgtgccac  | 89940 |
| tacactccag  | cctgggtgac  | agagtggagac | tctgtctcaa  | ataaataaaa | ataagcatgg  | 90000 |
| atattaaaac  | tcttgagaaa  | tggaataaat  | aagaaatcaa  | ctgtagctat | acaattgaaa  | 90060 |
| aagtctgcca  | tttatattct  | acttttttct  | ttttctctct  | ttctcttctc | ttctcttctc  | 90120 |
| ttttcttttct | ttttcttttt  | tttttttcag  | acggagtctc  | actctgttcc | ccaggctgga  | 90180 |
| gtgcagtggc  | acgatcttgg  | ctcactgcaa  | gctccgcctc  | ctgggttcac | accattcttc  | 90240 |
| tgccctcagcc | tcccagatag  | ctgggactac  | aggcgccccc  | caccacgccc | agctaatttt  | 90300 |
| ttgtattttt  | agtagagaca  | gggtttcacc  | atgttagcca  | agatgggtct | gatctgctga  | 90360 |
| ccttgtgatc  | tgcccgctct  | ggcctcccaa  | agtgtcggga  | ttacaggcgt | gagccaccac  | 90420 |
| acccgccccct | ttttttcttt  | tagtttttct  | agaaggcaag  | gaggtacatg | agcataatta  | 90480 |
| tttgacatag  | acagatttgg  | atccttttat  | ttcactttac  | atcatatgct | cgttctcatg  | 90540 |
| tgataatgta  | atthtttagaa | ccatgttttt  | cagtgactac  | ataatgtttc | atcaaccaga  | 90600 |
| tgtattatta  | ctcctagtth  | gatattttaa  | tggtctctgt  | ttctacttgc | agthttatttt | 90660 |
| taataagtag  | ataatcagaa  | ttgtgtcaag  | ataacatcca  | gtgagacttg | aacagataca  | 90720 |
| ctcctgaata  | gttgactcag  | agthctcta   | agccctagaa  | aactgacgag | aaatcatcag  | 90780 |
| ttcctgataa  | aattacacaa  | ttctacttca  | accaaaggagg | atcaaagcca | gattgggttg  | 90840 |

|             |            |             |             |             |             |       |
|-------------|------------|-------------|-------------|-------------|-------------|-------|
| actgtcattc  | ttctgtttat | ttattttgtg  | tattttttga  | gacagagtct  | tgctctgtca  | 90900 |
| cccaggctgg  | agtgcagtg  | tgcaatcttg  | gcacacggca  | acccctgcct  | tcctggttta  | 90960 |
| agcagttctc  | ttgcctcagc | ctcccaagta  | gctgggatta  | taggcagggtg | tggcaacacc  | 91020 |
| tggctgattt  | ttgtattttt | agtagagaca  | gggttttgcc  | atattggcca  | ggctgggtctc | 91080 |
| caactcatga  | cttcaagtga | tccactcact  | tctgcctccc  | aaagtgctag  | gattacaggc  | 91140 |
| atgagccacc  | gcacctggcc | ccatcattct  | taatcacctt  | aacattttcc  | ctctttccca  | 91200 |
| aaagagttgt  | gtatatecct | gggtgaggat  | cctgaaagt   | aagacattat  | ctgaggaaat  | 91260 |
| aatggtttgg  | gtcttaaaca | ctctggttag  | agctaagttt  | atatgacagg  | tattacattg  | 91320 |
| taaaaaggag  | aaaaaggtta | ttttagaaag  | acacctgtta  | gaacctgctt  | ttttttttat  | 91380 |
| ttttttttat  | ttttgagact | gagtcttacc  | ccgttgctca  | gaatggaatg  | cagtgggtgcg | 91440 |
| atctcagctc  | actgtgacct | ccacctccca  | ggttcaagcg  | attctcctgc  | ctcagcctcc  | 91500 |
| tgagttagctg | ggattacagg | cactcactac  | cgtgctcggc  | taatttttgt  | atttttagta  | 91560 |
| tagacggggt  | ttcaccatgt | tggccaggct  | ggctctgaac  | tcctgacctc  | aggtgatctg  | 91620 |
| cctgcctcgg  | cctcccaaag | tgctgggatt  | acaggcatga  | gctaccacac  | ccagccagaa  | 91680 |
| cctgctttct  | aaaagcaccc | taaacctctt  | tggttgtgaa  | tttatatatt  | ctctgccttc  | 91740 |
| caagggctgg  | tctttgagga | tattgcttgg  | aactaagttc  | atacagtaga  | tattttattt  | 91800 |
| aaaaaaaaaa  | aaaacagaaa | agagacctcc  | aataaaaagg  | ttcttttttg  | tctgattttt  | 91860 |
| tgcttttttt  | taattttgaa | atataatact  | tgtcatataa  | acttagctcc  | aagcagtatg  | 91920 |
| ctcaaagacc  | agcccttctt | ggaatgcaaa  | taatataata  | attcatagcc  | agagacgttt  | 91980 |
| agaggtgttt  | aaagaaaacc | aggttcttac  | aagtgtcttt  | ctaaaataac  | ctttatctct  | 92040 |
| tttttacaac  | aatcaaccag | agtgtttaag  | actcaaaccg  | ttcactgggtg | aaggaaggca  | 92100 |
| ttccctgaga  | ctctaggtct | gagaagaggg  | atgggtgggtg | gagaggggga  | gggagtttat  | 92160 |
| tcgccctgca  | gttggtgctg | caccacttac  | tttcaagggc  | atatttggtat | ctgttacttg  | 92220 |
| tcaaagtggc  | tatcagaatc | accttggact  | tcttgaaggg  | tgagttcaca  | accgagaaag  | 92280 |
| cacatattca  | aaattgttga | agtaataagt  | aaatcttcta  | gaaccttacc  | ctcagtgata  | 92340 |
| acattccact  | tctagctctt | aaatacccac  | ttctgtttcc  | tggatgagat  | actcagtgc   | 92400 |
| ggaaggaacc  | tgggttacat | ttgtcagagc  | cccaaactcg  | agatgaactg  | tatcaagttc  | 92460 |
| tgccctttgg  | ctgaggtcgg | ttactggagg  | tcactctctg  | tttctctctt  | tttttttttt  | 92520 |
| ttttttttta  | aaaaaaagag | agacagggtc  | ttgctctgtt  | gccagggtta  | gagtgcagcg  | 92580 |
| gtgtgattcc  | agtccactgc | agccttgacc  | tgccctgggt  | caagcgaatc  | tcccaagtag  | 92640 |
| ctggaagggtg | gaactagagg | catgcaccac  | cacaccgggc  | taatttttgt  | gtttttctta  | 92700 |
| tagagacgga  | gtctcatgtt | gccctgggct  | ggctctgaac  | ttctgggctc  | acaccatcat  | 92760 |
| cccaccacgc  | ccagcctatt | ttgttttttt  | aaatacaata  | tcttttggtat | gaacttagct  | 92820 |
| ccaagcatat  | gctcagaatc | cagcccttct  | tggagtgcag  | ttaatatacg  | agttcatagc  | 92880 |
| cagaaagatt  | tagaggtgtt | tcagacaaac  | caggttctta  | caggtgtctt  | tctgaaataa  | 92940 |
| ccattttctc  | ctttttacaa | caaaccagag  | tgtttgtaag  | actgaaacaa  | tgatcttgga  | 93000 |
| taatgtcttt  | gaaggccctc | acccagggat  | ttacagactc  | ctctggggag  | gagggaaaat  | 93060 |
| gtaatgcgaa  | gagccagagt | gcaaccaatc  | tggctttgat  | cctctttgggt | ccacactggc  | 93120 |
| tgtgtcacct  | tgggcaagga | atagagcctc  | tgagtctccc  | tttcttattt  | ctgctgcctt  | 93180 |
| aggattagtt  | agtgggggtt | cagtgcagag  | atgtaataaa  | gtgtgggtgt  | atagtacagt  | 93240 |
| ctctgggtga  | agtaagtgtc | ctatagtaat  | gtcagctact  | gaggctgggt  | gtgggtggctc | 93300 |
| atgctggtaa  | tcccagcact | ttggggagcc  | gaggtgggag  | gattgcttga  | ggccaggagt  | 93360 |
| tcaagaccag  | cccagtcaac | atggtgaaac  | cttgtctcta  | ccaaaaataa  | aaaaaattag  | 93420 |
| ccaggcatgg  | tggcgtatgc | ttgtagtctt  | agctactcgg  | gaggctgagg  | tgggaggatc  | 93480 |
| agttgagccc  | aggaggtgga | ggctgcagt   | agctgagatt  | gcacgactgc  | actccagcct  | 93540 |
| gggcaaaaga  | gcaagacccc | atctcaaaaa  | aaaaattttt  | ttttttaatg  | ttagctactg  | 93600 |
| tgatgaagtc  | tctttctgaa | aactggttct  | gtacagggtg  | ccgtaattct  | ttctactttt  | 93660 |
| tgtgtgtaaa  | caaagtcatt | gtttctttca  | gggactgatt  | catgtaggaa  | tagagagggg  | 93720 |
| ctggggaaac  | cagatggggc | aggtgggcgg  | cagagtaagg  | gatttccttt  | atgccccaaa  | 93780 |
| acacattttt  | tccccttgaa | tttaataatgt | gtgtggatca  | taaatagaaa  | aattcagaga  | 93840 |
| ggcacaaatc  | taaaaattat | gtatatgtga  | tgtataagaa  | aaagagagca  | gctgtggagg  | 93900 |
| ggcttgggtg  | ctgataggcg | ttagcttgca  | tgtgaataca  | gatattaaca  | agtagaaatc  | 93960 |
| tcatccgtat  | acacagtgcc | tttgcatcat  | gcattccccg  | ccaagtcatg  | tcggttccat  | 94020 |
| agtttctggg  | aaactctggg | ctgagaagag  | acacgggctg  | gtagccctct  | ctgttttttg  | 94080 |
| gggccaagat  | aatggggaaa | ggattgcatt  | tgcagtgatt  | ttcttatacg  | tcgtcttcaa  | 94140 |
| gtcacagcta  | cttctttgcc | tgaggatgta  | agaatggagg  | attggaaaga  | tgggtgctct  | 94200 |
| agatgactct  | tcatgcatcc | atccaaccat  | ccaagtgtgc  | agctacaaaa  | tttcttgaac  | 94260 |

|             |             |             |             |             |             |       |
|-------------|-------------|-------------|-------------|-------------|-------------|-------|
| atctgctatt  | tgccggtcac  | tgttttaggt  | actgaggata  | cactgtgaac  | aagacagaca  | 94320 |
| cagtccttgc  | cttcgttgac  | ttctgttctg  | cttaggacaa  | atccaagaca  | gccccatttc  | 94380 |
| tgtgcataca  | gaccaccttt  | ggctgcacca  | taggctgggtg | cagttctgca  | cagtgtcatt  | 94440 |
| ggttttatag  | ttatcacaag  | acctgaattg  | tctgaaatga  | cattcagcac  | ctgaactctt  | 94500 |
| tgacactttg  | gcacctccat  | aaatctagaa  | atttctctga  | gttgtgggtgc | ataggaaacc  | 94560 |
| ttgagggaca  | acccaggagt  | aactgtgaga  | aaaaggggtg  | cccagggagt  | aaatagatct  | 94620 |
| cacagctcag  | aactgtaggg  | acaggaagg   | ggaaggggtg  | ggagctggaa  | caagtctcca  | 94680 |
| agcagtgagc  | ttccccaag   | tgaccagcg   | tttcaagct   | gtgcttgcgt  | agacgggagc  | 94740 |
| aggtcgaaca  | gaaatatagt  | caaaactagc  | tcccgtaag   | gacagacagg  | atgtcatttt  | 94800 |
| gcaccacagc  | aagtagggga  | aagcagctct  | caagcctaac  | tgtgaaacgc  | ccccacaaac  | 94860 |
| cacctctctc  | tcccactccc  | tcaactgctg  | ctgccatggc  | tacctctaac  | gcagcaaagc  | 94920 |
| aaaactacaa  | aacatctctc  | ttctctctta  | caccagccct  | aaaataccta  | atgaggctct  | 94980 |
| cataatttgc  | cagaaccac   | atctacgaga  | gaagccagcc  | cttttgtctt  | aattaggatc  | 95040 |
| cccttgggtc  | gcccacttga  | ccgtgggctt  | cattgaggct  | gtgcttgcgt  | tgttcagtgc  | 95100 |
| tgcgctctca  | gcaggtagaa  | tgggtgcctgg | cacctgggag  | gtgctcagta  | aatattttgt  | 95160 |
| catgcataaa  | tgaatctgag  | acccactggc  | ctctgggaag  | agcataggag  | agggggacaa  | 95220 |
| cagcatgagg  | accatatgtt  | tgccatcttg  | ctgaagggaat | ttcagccaac  | ataataagac  | 95280 |
| atgaaaatgg  | cattcgaggt  | gtattagaca  | gacaagggga  | tgtagtggt   | tgaggagac   | 95340 |
| ttgggtctgcc | tcagtgatgt  | cagtcagcag  | tgatttgtgat | tccccagggg  | acactcggca  | 95400 |
| gcactctggag | acatttttagt | ttaaacttcc  | ccagtgatct  | gtgatgtaca  | ggagacactt  | 95460 |
| tcggttgtca  | cactggggga  | ggaggetgca  | tgtcactggc  | atctgttggg  | tgacacctac  | 95520 |
| aatgcacagg  | acaaccacaa  | caaataattc  | aggcccaaat  | gttgcctggg  | ctgagggtga  | 95580 |
| ggtcctagt   | ttagtaacag  | gaggaaaacc  | cagcagctctg | gaggagagac  | ctcttcccag  | 95640 |
| ggcagcccag  | gggccatcag  | gagggttcat  | ctcatgcatt  | agaggtcttg  | ggaagaatga  | 95700 |
| ggcttctctt  | cctccatcaa  | agcaagcaaa  | tccttttaaa  | gctgcactctc | caagggtctgc | 95760 |
| tccgggtcca  | tagaagcaa   | cgtcggagcc  | cagaggaag   | gctgtgctac  | tcagtgtccc  | 95820 |
| tctggggtca  | caaaggcttc  | acttggtctc  | taagagctga  | tgaggcctct  | cgcaagggac  | 95880 |
| cctgtgtgca  | tgggctgacc  | ctgaaacttc  | ccagcctctc  | ttcttctcag  | agcaccctca  | 95940 |
| ggtggcctct  | cgggggttac  | ccctcattga  | taccatgtct  | cctcgtgttt  | ttgtccagac  | 96000 |
| tccaattcca  | gggtttcaga  | accgcctcgc  | agcatcttct  | ctgaaatgca  | ctcagactca  | 96060 |
| gccagcaaag  | acgtgcctgg  | ccgcctcctg  | ctggatatag  | acaatgatac  | cgagagcact  | 96120 |
| gccctgtgaa  | gaaagccctt  | tcccagccct  | ccaccacttc  | caccttggcg  | agtggagcag  | 96180 |
| gggcaggcga  | acctctttct  | ttgcagaccg  | aacagtgaag  | agctttcagt  | ggaggacaaa  | 96240 |
| ggagggcctc  | actgtgcggg  | acctggcctt  | ctgcacggcc  | caaggagAAC  | ctggaggcca  | 96300 |
| ccactaaagc  | tgaatgacct  | gtgtcttgaa  | gaagtgtgct  | ttctttacat  | gggaaggaaa  | 96360 |
| tcatgccaaa  | aaaatccaaa  | acaaagaagt  | acctggagtg  | gagagagtat  | tcctgctgaa  | 96420 |
| acgcgcatag  | gaagcttttg  | tccctgctgt  | taatgcgggc  | agcacctaca  | gcaacttgga  | 96480 |
| atgagtaaga  | agcagtgcgt  | taactatcta  | tttaataaaa  | tgcgctcatt  | atgcaagtgc  | 96540 |
| cctactctct  | gctacctgga  | cgttcattct  | tatgtattag  | gagggaggct  | gcgctccttc  | 96600 |
| agacttgctg  | cagaatcatt  | ttgtatcatg  | tatggctctgt | gtctccccag  | tccctcaga   | 96660 |
| accatgccca  | tggatgggtga | ctgctggctc  | tgtcacctca  | tcaaactgga  | tgtgacctat  | 96720 |
| gccgcctcgt  | tggattgtcg  | gaatgtagac  | agaaatgtac  | tgttcttttt  | ttttttttta  | 96780 |
| aacaatgtaa  | ttgctacttg  | ataaggaccg  | aacattatct  | tagtttcatg  | tttaatttga  | 96840 |
| attaaatata  | ttctgtggtt  | tatatgaaaa  | cttcataatt  | cttgagggtg  | aattgtggag  | 96900 |
| tgtgtgtgtg  | tgtgtgtgca  | tgagtgtgtg  | tgtgttgcca  | ctcaaccaga  | tagaattgtg  | 96960 |
| gctgggacat  | cttgggggag  | agggctctaat | tgtagctgta  | ggagtttgaa  | gaaacagaga  | 97020 |
| gcaaggtcgc  | aacagtgaag  | aaggccgcca  | gggtccccaa  | agacctccta  | gcctggccat  | 97080 |
| cctcagtgca  | ggttctgggtc | aaggctgcac  | ccttgggtct  | cccagtgtctg | gcaccccttt  | 97140 |
| ctttccatct  | agagatactc  | agactcccg   | gggcagctca  | caggagttca  | gccccaccgg  | 97200 |
| gttgggtgcat | tcgtcagcag  | ttgtgaattg  | ccatagagag  | ccctttttcc  | aatggctggg  | 97260 |
| gctttcatgc  | cctatccaag  | gcgtgaaaat  | tatcccgctc  | ctcccaggat  | tgaataacta  | 97320 |
| gggaagagcc  | gatggggaat  | tggagcaaag  | cgagactgag  | gctctggaca  | gctggctctga | 97380 |
| cgatagcacg  | accccttggc  | ccagataagg  | ccgttttctc  | ttgggaacag  | agtgggacac  | 97440 |
| gctgccagag  | ttggctgccc  | tgagccttct  | attgatcgag  | tttgctaggt  | gtgtcagtgt  | 97500 |
| ctaagtcact  | gcctagaaga  | cactgggcct  | ctttccacta  | cgaactgact  | taagcctgat  | 97560 |
| ttaaaaagg   | gaaccacagt  | ttccttttgt  | tgtttttttg  | aaacagatct  | cactctgtgg  | 97620 |
| cccaggctgg  | agtgcagtgg  | cacaatcata  | actcactgca  | gcctccaaac  | tcctaggctc  | 97680 |

```

aatgatcct cccaactcag cctcccaagt agctgagact acaggtgcat ggcaatacac 97740
ccaactaatt tttaaatatt tttttttcta gagacaggga tcttgctgtg ttgcccaggc 97800
tggtcttaca attctggcct cagcgaatcc tcccacttca gcctccgaaa gtgctgggat 97860
tacaggcgtg agccaccatg cccagcccac attttcatct ttactcagtt tcctatgccc 97920
tcaaagtact cctatactt attaattacc ttcaaaatat gctcctgtaa gcccatttgc 97980
tcccatatct tgaattttca ttggcttaag gctcactott cccctgtgcc acctgtgtat 98040
tgttaatttt ctataccctc ctttagccac agaacaacc ctgcagagaa agaatcctct 98100
gtgtgggctg atgctccatg ttgagcacct tctccaggcg cctggctgtc cacggtcagg 98160
tgtctccatg gagcctcgga gatgctcca tctgtatgcc tgagcttgtc ctccagagga 98220
agcaggggact tgggcgcttg tcaaggagat gctgttgcca cctggggatg agaaacatcc 98280
atgctgacat cctgcccagc atatagcatg tgttcatcat tgctgattct gaaatacagc 98340
aaaccatacc tcattatatt aagagcctca ttcagttttt actctcctat tgtttgcagc 98400
aatcttctta cctgacagc tgcaaacttc aaaacaatga aagtcatttg actctgtgta 98460
tgtgtcaaag gtaaagacca cactttggga ggccgaggcg ggcagatcac ttgatgtcag 98520
gagttcaaga ccagcctggt caacatggtg agaccccatg tctactaaag atacaaaaaa 98580
ttaacttggc atcgtggtgg gtgccagtaa tcccagctac ttaggaggct gagacaggat 98640
aatcacttga acctgggtga cagagactac agtgagccca gatcaagcca gtgcactcca 98700
gcctgggcaa caaagtgaga ctctgtctca aaaaaaaca aaacaaaaaa aaccagaac 98760
tgtctagggg gggatacatg gctgagcatc ccaccggcag ggccaggaga ggcacctgga 98820
tcctctttcc cgttctgtgg cccgggatcc cttctgctgg aggcg 98865

```

<210> 4

<211> 726

<212> PRT

<213> Homo sapiens

<400> 4

```

Met Gln Glu Ala Ser Thr Gln Leu Glu Asp Ser Leu Leu Gly Lys Met
 1              5              10              15
Leu Glu Thr Cys Gly Asp Ala Glu Asn Gln Leu Ala Leu Glu Leu Ser
      20              25              30
Gln His Glu Val Phe Val Glu Lys Glu Ile Val Asp Pro Leu Tyr Gly
      35              40              45
Ile Ala Glu Val Glu Ile Pro Asn Ile Gln Lys Gln Arg Lys Gln Leu
      50              55              60
Ala Arg Leu Val Leu Asp Trp Asp Ser Val Arg Ala Arg Trp Asn Gln
      65              70              75              80
Ala His Lys Ser Ser Gly Thr Asn Phe Gln Gly Leu Pro Ser Lys Ile
      85              90              95
Asp Thr Leu Lys Glu Glu Met Asp Glu Ala Gly Asn Lys Val Glu Gln
      100             105             110
Cys Lys Asp Gln Leu Ala Ala Asp Met Tyr Asn Phe Met Ala Lys Glu
      115             120             125
Gly Glu Tyr Gly Lys Phe Phe Val Thr Leu Leu Glu Ala Gln Ala Asp
      130             135             140
Tyr His Arg Lys Ala Leu Ala Val Leu Glu Lys Thr Leu Pro Glu Met
      145             150             155             160
Arg Ala His Gln Asp Lys Trp Ala Glu Lys Pro Ala Phe Gly Thr Pro
      165             170             175
Leu Ala Glu His Leu Lys Arg Ser Gly Arg Glu Ile Ala Leu Pro Ile
      180             185             190
Glu Ala Cys Val Met Leu Leu Leu Glu Thr Gly Met Lys Glu Glu Gly
      195             200             205
Leu Phe Arg Ile Gly Ala Gly Ala Ser Lys Leu Lys Lys Leu Lys Ala
      210             215             220
Ala Leu Asp Cys Ser Thr Ser His Leu Asp Glu Phe Tyr Ser Asp Pro
      225             230             235             240

```

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|
| His | Ala | Val | Ala | Gly | Ala | Leu | Lys | Ser | Tyr | Leu | Arg | Glu | Leu | Pro | Glu |  |
|     |     |     |     | 245 |     |     |     |     | 250 |     |     |     |     | 255 |     |  |
| Pro | Leu | Met | Thr | Phe | Asn | Leu | Tyr | Glu | Glu | Trp | Thr | Gln | Val | Ala | Ser |  |
|     |     |     | 260 |     |     |     |     | 265 |     |     |     |     | 270 |     |     |  |
| Val | Gln | Asp | Gln | Asp | Lys | Lys | Leu | Gln | Asp | Leu | Trp | Arg | Thr | Cys | Gln |  |
|     |     | 275 |     |     |     |     | 280 |     |     |     |     | 285 |     |     |     |  |
| Lys | Leu | Pro | Pro | Gln | Asn | Phe | Val | Asn | Phe | Arg | Tyr | Leu | Ile | Lys | Phe |  |
|     | 290 |     |     |     |     | 295 |     |     |     | 300 |     |     |     |     |     |  |
| Leu | Ala | Lys | Leu | Ala | Gln | Thr | Ser | Asp | Val | Asn | Lys | Met | Thr | Pro | Ser |  |
|     | 305 |     |     |     | 310 |     |     |     |     | 315 |     |     |     |     | 320 |  |
| Asn | Ile | Ala | Ile | Val | Leu | Gly | Pro | Asn | Leu | Leu | Trp | Ala | Arg | Asn | Glu |  |
|     |     |     | 325 |     |     |     |     |     | 330 |     |     |     |     | 335 |     |  |
| Gly | Thr | Leu | Ala | Glu | Met | Ala | Ala | Ala | Thr | Ser | Val | His | Val | Val | Ala |  |
|     |     |     | 340 |     |     |     |     | 345 |     |     |     |     | 350 |     |     |  |
| Val | Ile | Glu | Pro | Ile | Ile | Gln | His | Ala | Asp | Trp | Phe | Phe | Pro | Glu | Glu |  |
|     |     | 355 |     |     |     |     | 360 |     |     |     |     | 365 |     |     |     |  |
| Val | Glu | Phe | Asn | Val | Ser | Glu | Ala | Phe | Val | Pro | Leu | Thr | Thr | Pro | Ser |  |
|     | 370 |     |     |     |     | 375 |     |     |     | 380 |     |     |     |     |     |  |
| Ser | Asn | His | Ser | Phe | His | Thr | Gly | Asn | Asp | Ser | Asp | Ser | Gly | Thr | Leu |  |
|     | 385 |     |     |     | 390 |     |     |     |     | 395 |     |     |     |     | 400 |  |
| Glu | Arg | Lys | Arg | Pro | Ala | Ser | Met | Ala | Val | Met | Glu | Gly | Asp | Leu | Val |  |
|     |     |     |     | 405 |     |     |     |     | 410 |     |     |     |     | 415 |     |  |
| Lys | Lys | Glu | Ser | Pro | Pro | Lys | Pro | Lys | Asp | Pro | Val | Ser | Ala | Ala | Val |  |
|     |     | 420 |     |     |     |     |     | 425 |     |     |     |     | 430 |     |     |  |
| Pro | Ala | Pro | Gly | Arg | Asn | Asn | Ser | Gln | Ile | Ala | Ser | Gly | Gln | Asn | Gln |  |
|     |     | 435 |     |     |     |     | 440 |     |     |     |     | 445 |     |     |     |  |
| Pro | Gln | Ala | Ala | Ala | Gly | Ser | His | Gln | Leu | Ser | Met | Gly | Gln | Pro | His |  |
|     | 450 |     |     |     |     | 455 |     |     |     |     | 460 |     |     |     |     |  |
| Asn | Ala | Ala | Gly | Pro | Ser | Pro | His | Thr | Leu | Arg | Arg | Ala | Val | Lys | Lys |  |
|     | 465 |     |     |     | 470 |     |     |     |     | 475 |     |     |     |     | 480 |  |
| Pro | Ala | Pro | Ala | Pro | Pro | Lys | Pro | Gly | Asn | Pro | Pro | Pro | Gly | His | Pro |  |
|     |     |     |     | 485 |     |     |     |     | 490 |     |     |     |     | 495 |     |  |
| Gly | Gly | Gln | Ser | Ser | Ser | Gly | Thr | Ser | Gln | His | Pro | Pro | Ser | Leu | Ser |  |
|     |     | 500 |     |     |     |     |     | 505 |     |     |     |     | 510 |     |     |  |
| Pro | Lys | Pro | Pro | Thr | Arg | Ser | Pro | Ser | Pro | Pro | Thr | Gln | His | Thr | Gly |  |
|     |     | 515 |     |     |     |     | 520 |     |     |     |     | 525 |     |     |     |  |
| Gln | Pro | Pro | Gly | Gln | Pro | Ser | Ala | Pro | Ser | Gln | Leu | Ser | Ala | Pro | Arg |  |
|     | 530 |     |     |     |     | 535 |     |     |     |     | 540 |     |     |     |     |  |
| Arg | Tyr | Ser | Ser | Ser | Leu | Ser | Pro | Ile | Gln | Ala | Pro | Asn | His | Pro | Pro |  |
|     | 545 |     |     |     | 550 |     |     |     |     | 555 |     |     |     |     | 560 |  |
| Pro | Gln | Pro | Pro | Thr | Gln | Ala | Thr | Pro | Leu | Met | His | Thr | Lys | Pro | Asn |  |
|     |     |     |     | 565 |     |     |     |     | 570 |     |     |     |     | 575 |     |  |
| Ser | Gln | Gly | Pro | Pro | Asn | Pro | Met | Ala | Leu | Pro | Ser | Glu | His | Gly | Leu |  |
|     |     | 580 |     |     |     |     |     | 585 |     |     |     |     | 590 |     |     |  |
| Glu | Gln | Pro | Ser | His | Thr | Pro | Pro | Gln | Thr | Pro | Thr | Pro | Pro | Ser | Thr |  |
|     |     | 595 |     |     |     |     | 600 |     |     |     |     | 605 |     |     |     |  |
| Pro | Pro | Leu | Gly | Lys | Gln | Asn | Pro | Ser | Leu | Pro | Ala | Pro | Gln | Thr | Leu |  |
|     | 610 |     |     |     |     | 615 |     |     |     |     | 620 |     |     |     |     |  |
| Ala | Gly | Gly | Asn | Pro | Glu | Thr | Ala | Gln | Pro | His | Ala | Gly | Thr | Leu | Pro |  |
|     | 625 |     |     |     | 630 |     |     |     |     | 635 |     |     |     |     | 640 |  |
| Arg | Pro | Arg | Pro | Val | Pro | Lys | Pro | Arg | Asn | Arg | Pro | Ser | Val | Pro | Pro |  |
|     |     |     |     | 645 |     |     |     |     | 650 |     |     |     |     | 655 |     |  |
| Pro | Pro | Gln | Pro | Pro | Gly | Val | His | Ser | Ala | Gly | Asp | Ser | Ser | Leu | Thr |  |
|     |     |     | 660 |     |     |     |     | 665 |     |     |     |     | 670 |     |     |  |
| Asn | Thr | Ala | Pro | Thr | Ala | Ser | Lys | Ile | Val | Thr | Asp | Ser | Asn | Ser | Arg |  |
|     |     | 675 |     |     |     |     | 680 |     |     |     |     | 685 |     |     |     |  |
| Val | Ser | Glu | Pro | His | Arg | Ser | Ile | Phe | Pro | Glu | Met | His | Ser | Asp | Ser |  |

|   |     |     |  |     |
|---|-----|-----|--|-----|
| 690   |     | 695 |  | 700 |
| Ala Ser Lys Asp Val Pro Gly Arg Ile Leu Leu Asp Ile Asp Asn Asp |     |     |  |     |
| 705   |     | 710 |  | 715 |
| Thr Glu Ser Thr Ala Leu   |     |     |  | 720 |
|   | 725 |     |  |     |

<210> 5  
 <211> 780  
 <212> PRT  
 <213> Rattus norvegicus

<400> 5

|   |     |     |     |  |
|---|-----|-----|-----|--|
| Met Lys Lys Gln Phe Asn Arg Met Lys Gln Leu Ala Asn Gln Thr Val |     |     |     |  |
| 1   | 5   | 10  | 15  |  |
| Gly Arg Ala Glu Lys Thr Glu Val Leu Ser Glu Asp Leu Leu Gln Ile |     |     |     |  |
|   | 20  | 25  | 30  |  |
| Glu Arg Arg Leu Asp Thr Val Arg Ser Met Cys His His Ser His Lys |     |     |     |  |
|   | 35  | 40  | 45  |  |
| Arg Leu Ile Ala Cys Phe Gln Gly Gln His Gly Thr Asp Ala Glu Arg |     |     |     |  |
|   | 50  | 55  | 60  |  |
| Arg His Lys Lys Leu Pro Leu Thr Ala Leu Ala Gln Asn Met Gln Glu |     |     |     |  |
| 65  | 70  | 75  | 80  |  |
| Ala Ser Ala Gln Leu Glu Glu Ser Leu Leu Gly Lys Met Leu Glu Thr |     |     |     |  |
|   | 85  | 90  | 95  |  |
| Cys Gly Asp Ala Glu Asn Gln Leu Ala Phe Glu Leu Ser Gln His Glu |     |     |     |  |
|   | 100 | 105 | 110 |  |
| Val Phe Val Glu Lys Glu Ile Met Asp Pro Leu Tyr Gly Ile Ala Glu |     |     |     |  |
|   | 115 | 120 | 125 |  |
| Val Glu Ile Pro Asn Ile Gln Lys Gln Arg Lys Gln Leu Ala Arg Leu |     |     |     |  |
|   | 130 | 135 | 140 |  |
| Val Leu Asp Trp Asp Ser Val Arg Ala Arg Trp Asn Gln Ala His Lys |     |     |     |  |
| 145   | 150 | 155 | 160 |  |
| Ser Ser Gly Thr Asn Phe Gln Gly Leu Pro Ser Lys Ile Asp Thr Leu |     |     |     |  |
|   | 165 | 170 | 175 |  |
| Lys Glu Glu Met Asp Glu Ala Gly Asn Lys Val Glu Gln Cys Lys Asp |     |     |     |  |
|   | 180 | 185 | 190 |  |
| Gln Leu Ala Ala Asp Met Tyr Asn Phe Met Ala Lys Glu Gly Glu Tyr |     |     |     |  |
|   | 195 | 200 | 205 |  |
| Gly Lys Phe Phe Val Thr Leu Leu Glu Ala Gln Ala Asp Tyr His Arg |     |     |     |  |
|   | 210 | 215 | 220 |  |
| Lys Ala Leu Ala Val Leu Glu Lys Ala Leu Pro Glu Met Arg Ala His |     |     |     |  |
| 225   | 230 | 235 | 240 |  |
| Gln Asp Lys Trp Ala Glu Lys Pro Ala Phe Gly Thr Pro Leu Glu Glu |     |     |     |  |
|   | 245 | 250 | 255 |  |
| His Leu Lys Arg Ser Gly Arg Glu Ile Ala Leu Pro Ile Glu Ala Cys |     |     |     |  |
|   | 260 | 265 | 270 |  |
| Val Met Leu Leu Leu Glu Thr Gly Met Lys Glu Glu Gly Leu Phe Arg |     |     |     |  |
|   | 275 | 280 | 285 |  |
| Ile Gly Ala Gly Ala Ser Lys Leu Lys Lys Leu Lys Ala Ala Leu Asp |     |     |     |  |
|   | 290 | 295 | 300 |  |
| Cys Ser Thr Ser His Leu Asp Glu Phe Tyr Ser Asp Pro His Ala Val |     |     |     |  |
| 305   | 310 | 315 | 320 |  |
| Ala Gly Ala Leu Lys Ser Tyr Leu Arg Glu Leu Pro Glu Pro Leu Met |     |     |     |  |
|   | 325 | 330 | 335 |  |
| Thr Phe Ser Leu Tyr Glu Glu Trp Thr Gln Val Ala Ser Val Gln Asp |     |     |     |  |
|   | 340 | 345 | 350 |  |

<210> 6

<211> 7  
<212> PRT  
<213> Homo sapiens

<220>  
<221> VARIANT  
<222> (1)...(7)  
<223> Xaa = Any Amino Acid

<400> 6  
Gly Xaa Xaa Xaa Xaa Gly Lys  
1 5

<210> 7  
<211> 5  
<212> PRT  
<213> Homo sapiens

<400> 7  
Asp Thr Ala Gly Gln  
1 5

<210> 8  
<211> 4  
<212> PRT  
<213> Homo sapiens

<220>  
<221> VARIANT  
<222> (1)...(4)  
<223> Xaa = Any Amino Acid

<400> 8  
Asn Lys Xaa Asp  
1

<210> 9  
<211> 5  
<212> PRT  
<213> Homo sapiens

<220>  
<221> VARIANT  
<222> (1)...(5)  
<223> Xaa = Any Amino Acid

<400> 9  
Glu Xaa Ser Ala Xaa  
1 5

<210> 10  
<211> 4  
<212> PRT

<213> Homo sapiens

<220>

<221> VARIANT

<222> (1)...(4)

<223> Xaa = Any Amino Acid

<400> 10

Cys Ala Ala Xaa

1

<210> 11

<211> 4

<212> PRT

<213> Homo sapiens

<400> 11

Asn Gln Thr Val

1

<210> 12

<211> 4

<212> PRT

<213> Homo sapiens

<400> 12

Asn Val Ser Glu

1

<210> 13

<211> 4

<212> PRT

<213> Homo sapiens

<400> 13

Asn His Ser Phe

1

<210> 14

<211> 4

<212> PRT

<213> Homo sapiens

<400> 14

Asn Asp Ser Asp

1

<210> 15

<211> 4

<212> PRT

<213> Homo sapiens

<400> 15  
Asn Asn Ser Gln  
1

<210> 16  
<211> 4  
<212> PRT  
<213> Homo sapiens

<400> 16  
Asn Asp Thr Glu  
1

<210> 17  
<211> 4  
<212> PRT  
<213> Homo sapiens

<400> 17  
Lys Lys Glu Ser  
1

<210> 18  
<211> 4  
<212> PRT  
<213> Homo sapiens

<400> 18  
Arg Arg Tyr Ser  
1

<210> 19  
<211> 4  
<212> PRT  
<213> Homo sapiens

<400> 19  
Thr Asp Ala Glu  
1

<210> 20  
<211> 4  
<212> PRT  
<213> Homo sapiens

<400> 20  
Thr Gln Leu Glu  
1

<210> 21  
<211> 4

<212> PRT  
<213> Homo sapiens

<400> 21  
Thr Cys Gly Asp  
1

<210> 22  
<211> 4  
<212> PRT  
<213> Homo sapiens

<400> 22  
Ser Gln His Glu  
1

<210> 23  
<211> 4  
<212> PRT  
<213> Homo sapiens

<400> 23  
Ser Lys Ile Asp  
1

<210> 24  
<211> 4  
<212> PRT  
<213> Homo sapiens

<400> 24  
Thr Leu Lys Glu  
1

<210> 25  
<211> 4  
<212> PRT  
<213> Homo sapiens

<400> 25  
Thr Leu Leu Glu  
1

<210> 26  
<211> 4  
<212> PRT  
<213> Homo sapiens

<400> 26  
Thr Leu Pro Glu  
1

<210> 27  
<211> 4  
<212> PRT  
<213> Homo sapiens

<400> 27  
Ser Gly Arg Glu  
1

<210> 28  
<211> 4  
<212> PRT  
<213> Homo sapiens

<400> 28  
Ser His Leu Asp  
1

<210> 29  
<211> 4  
<212> PRT  
<213> Homo sapiens

<400> 29  
Ser Val Gln Asp  
1

<210> 30  
<211> 4  
<212> PRT  
<213> Homo sapiens

<400> 30  
Thr Leu Ala Glu  
1

<210> 31  
<211> 4  
<212> PRT  
<213> Homo sapiens

<400> 31  
Thr Gly Asn Asp  
1

<210> 32  
<211> 4  
<212> PRT  
<213> Homo sapiens

<400> 32

Ser Ala Gly Asp

1

<210> 33

<211> 8

<212> PRT

<213> Homo sapiens

<400> 33

Lys Glu Ile Val Asp Pro Leu Tyr

1

5

<210> 34

<211> 6

<212> PRT

<213> Homo sapiens

<400> 34

Gly Gln His Gly Thr Asp

1

5

<210> 35

<211> 6

<212> PRT

<213> Homo sapiens

<400> 35

Gly Thr Pro Leu Ala Glu

1

5

<210> 36

<211> 6

<212> PRT

<213> Homo sapiens

<400> 36

Gly Ala Gly Ala Ser Lys

1

5

<210> 37

<211> 6

<212> PRT

<213> Homo sapiens

<400> 37

Gly Ala Leu Lys Ser Tyr

1

5

<210> 38

<211> 6

<212> PRT

<213> Homo sapiens

<400> 38

Gly Gln Pro His Asn Ala

1

5

<210> 39

<211> 6

<212> PRT

<213> Homo sapiens

<400> 39

Gly Gly Gln Ser Ser Ser

1

5

<210> 40

<211> 6

<212> PRT

<213> Homo sapiens

<400> 40

Gly Gln Ser Ser Ser Gly

1

5

<210> 41

<211> 6

<212> PRT

<213> Homo sapiens

<400> 41

Gly Gln Pro Pro Gly Gln

1

5

<210> 42

<211> 6

<212> PRT

<213> Homo sapiens

<400> 42

Gly Asn Pro Glu Thr Ala

1

5

<210> 43

<211> 6

<212> PRT

<213> Homo sapiens

<400> 43

Gly Val His Ser Ala Gly

1

5

C6  
<210> 44  
<211> 11  
<212> PRT  
<213> Homo sapiens

<400> 44  
Pro Glu Thr Ala Gln Pro His Ala Gly Thr Leu  
1 5 10

---